GILT EDGE INDUSTRIES LIMITED

FLOORING PREPARATION AND INSTALLATION SPECIALISTS

UZIN® INTELLIGENT RESOURCES

Floor Preparation & Adhesive Data Book

EVERY FLOORING INSTALLATION DESERVES THE "**GILT EDGE**" FINISH

MARCH 2022

GILT EDGE INDUSTRIES LIMITED®

P O Box 7515, Sydenham, Christchurch 8204
Free Phone: 0800 445 833
Email: help@giltedge.co.nz
www.giltedge.co.nz

Gilt Edge Industries Contact List

Auckland - Glenfield			
Glenfield Store	3/7 Colway Place, Glenfield	09 443 7067	Fax 09 444 0510
Chris Dickey	Managing Director	0274 355 891	chris@giltedge.co.nz
Fiona Carter	Auckland Administration	09 443 7067	fiona@giltedge.co.nz
Nigel Rawthorn	Storeman	09 443 7067	glenfield@giltedge.co.nz
Ian Williams	Commercial & Architectural Consultant	0274 364 642	ian@giltedge.co.nz
Auckland - Penrose			
Penrose Store	37 Fairfax Avenue, Penrose	09 579 7067	Fax 09 579 7064
Nick Richardson	General Manager	027 268 9300	nick@giltedge.co.nz
		09 579 6128	DDI
Martino Rosandi	National Supply Chain Manager	027 468 8551	martino@giltedge.co.nz
Ben Tualevao	Store Manager	09 579 7067	penrose@giltedge.co.nz
Larissa Huia	Auckland/Northland Sales Consultant	0274 364 005	larissa@giltedge.co.nz
Steve Robinson	Auckland Sales Consultant	027 779 9337	steve@ giltedge.co.nz
Whangarei			
Guthrie Bowron	34 Porowini Avenue Whangarie		
Larissa Huia	Auckland/Northland Sales Consultant	0274 364 005	larissa@giltedge.co.nz
Hamilton			
Hamilton Store	10 Haig Street Hamilton	07 847 6452	Fax 07 847 6924
Jason Bone	Depot Manager	027 261 2800	hamilton@giltedge.co.nz
Duncan McDonnell	BOP Waikato Sales Consultant	027 223 4147	duncan@giltedge.co.nz
Tauranga			
Tauranga Store	Unit 3, 33 Burrows Street Tauranga	07 571 8244	Fax 07 847 6924
Phil Rankin	Depot Manager	027 213 7209	tauranga@giltedge.co.nz
Duncan McDonnell	BOP Waikato Sales Consultant	027 223 4147	duncan@giltedge.co.nz
Palmerston North			
Palmerston North Store	Unit A, 65 Taonui Street Palmerston North	06 825 6519	
John Biberstein	Depot Manager	06 825 6519	palmerstonnorth@giltedge.co.nz
Tony Wicksteed	Lower North Island Slaes Consultant	0274 364 646	tony@giltedge.co.nz
Wellington			
Wellington Store	50 Fitzherbert Street, Petone	04 569 7067	Fax 04 569 7066
Shane Driscoll	Depot Manager	04 569 7067	wellington@giltedge.co.nz
Tony Wicksteed	Lower North Island Sales Consultant	0274 364 646	tony@giltedge.co.nz
Nelson			
Nelson Store	8b Tokamaru Place Nelson	03 544 5778	Fax 03 548 1814
John Bradley	Store Manager	03 544 5778	
Craig Kennelly	South Island Sales Manager	0274 387 266	craig@giltedge.co.nz
Christchurch Head Office			
110 Antigua Street Addington - PO Box 7515 Sydenham		Phone 03 379 7067 or 0800 445 833	
Chris Campbell	Office Manager	03 379 7067	help@giltedge.co.nz
Jess Fuldseth	Office Administrator	03 379 7067	office@giltedge.co.nz
Alex Cudworth	Depot Manager	027 664 9944	alex@giltedge.co.nz
Craig Kennelly	South Island Sales Manager	0274 387 266	craig@giltedge.co.nz
Timaru			
Dores for Floors	41 Bank Street Timaru		
Craig Kennelly	South Island Sales Manager	0274 387 266	craig@giltedge.co.nz
Dunedin			
Dunedin Store	15 Turakina St Sth Dunedin	03 455 7067	Fax 03 455 7069
Steve Chester	Depot Manager	03 455 7067	dunedin@giltedge.co.nz
Martin McCarron	Lower South Island Sales Consultant	027 248 2770	martin@giltedge.co.nz

Gilt Edge Industries Ltd

Customer Services
CHC : 03 379 7067 or AKL: 09 443 7067
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

UZIN Floor Levelling Compounds

Product	Description	Packaging	Approximate Spread Rate
NC 160	Self-Levelling water mixed compound. 1.5mm-20mm thicknesses. (5.0L water). Interior use only. For preparation prior to installation of all floor coverings. Not for under solid timbers. 30 MPA	20kg	4.75sqm per 20kg bag @ 3.0mm thick 1.40sqm per 20kg bag @ 10.0mm thick. (Product can be extended with UZIN sand 2:1)
NC 170	Self-Levelling water mixed compound - High strength. High performance and high flow characteristics. 0.0mm-unlimited (5.25L water). Interior use only. For preparation prior to installation of all floor coverings including solid timber flooring. 35-40 MPA	20kg	4.75sqm per 20kg bag @ 3.0mm thick 1.40sqm per 20kg bag @ 10.0mm thick. (Product can be extended with UZIN sand 2:1)
NC 182	Trowel applied high strength, rapid cure floor levelling compound. Water mixed (5-6L water). Feather edge – 100mm low slump. Very fine surface finish. Interior use only. Recommended that all substrates should be primed (PE520). Can be covered after 1 hour. 30 MPA	20kg	4.75sqm per 20kg bag @ 3.0mm thick 1.40sqm per 20kg bag @ 10.0mm thick. (Product can be extended with UZIN sand 2:1)
NC 395	Free flowing Interior/Exterior water mixed levelling compound (4.0-4.5L water) 3.0mm-40.0mm thickness. Rapid setting. Can be used as substrate preparation for Ceramic tiles and stone flooring systems. Primer UZIN PE520. 25 MPA	25kg	4-5sqm per 25kg bag @ 3.0mm thick 1-2sqm per 25kg bag @ 10.0mm thick.
NC 366	Trowel applied low slump levelling compound for interior wet area and exterior use. Rapid setting compound suitable for thicknesses 3-50mm. Waterproof and frost resistant.	25kg	4-5sqm per 25kg bag @ 3.0mm thick 1-2sqm per 25kg bag @ 10.0mm thick.

Gilt Edge Industries Ltd®

Customer Services
CHC : 03 379 7067 or AKL: 09 443 7067
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

UZIN Floor Levelling Compounds

Product	Description	Packaging	Approximate Spread Rate
NC 888	Very fine and rapid setting flushing compound that finishes to a fine feather edge. Excellent bonding properties to a very wide range or substrates with or without primer. Ideal for repair of small substrate imperfections. For thickness up to 4.0mm. Most installations can be laid on after 30 minutes. Interior use only. Large water ratio variation . Progress sand as soon as dry.	4.5kg	4.1sqm per 4.5kg bag @1.0mm thick. 1.0sqm per 4.5kg bag @ 4.0mm thick.
PE 520 Primer	Water based primer for installations of levelling compounds. For porous substrates. Diluted 4:1 with water for "wet on wet" installations. Install levelling compound while primer is still wet. Can also be used as a dry primer without reduction in bond strength. Used as an additive for enhanced flexibility and adhesion in levelling compounds. Ideal primer for adhesive application. Primer system for Aerated concrete substrates. Applied by brush, roller or spray.	5kg	Wet Primer 30gms/sqm(when diluted 4:1) Dry Primer 40gms/sqm(when diluted 3:1)
PE 280 Primer	Film smoothing primer for smooth non porous surfaces. Rapid cure. For applications over sound and well bonded existing adhesive residues and screeds. For priming treated with UZIN epoxy based moisture barriers and primers. Primer for timber prepared timber substrates plus T&G. 45 minute cure time.	5kg	50sqm per 5kg pail.
PE 460 Primer	2-Part Epoxy primer for damp or weak substrates. Heavy duty primer for domestic, commercial, and industrial use. Maybe blended with aggregates to produce a durable mortar system. Primer for substrates with below 90% moisture content and reducing. Primer for KR430 and KR421 in exterior situations	10kg	30sqm per 10kg kit (as a primer)

Gilt Edge Industries Ltd

Customer Services
CHC : 03 379 7067 or AKL: 09 443 7067
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

UZIN Floor Levelling Compounds

Product	Description	Packaging	Approximate Spread Rate
PE 460 Primer	2-Part Epoxy primer for damp or weak substrates. Heavy duty primer for domestic, commercial, and industrial use. Maybe blended with aggregates to produce a durable mortar system. Primer for substrates with below 90% moisture content and reducing. Primer for KR430 and KR421 in exterior situations	10kg	30sqm per 10kg kit (as a primer)
PE 630 Primer	2 part (powder & emulsion) trowel applied primer for priming ceramic tiles or T&G timber substrates prior to the installation of floor levelling compounds . Rapid drying primer cures to a profiled, semi-flexible compound that reduces joint and grout line appearance in finished levelling. Interior use only.	16kg	2-4 sqm per kg (depending on substrate profile)

UZIN Adhesive & Primer Selection Chart

Product	Description	Packaging	Approximate Spread Rate
K2000S	Universal Flooring Adhesive. Very good residual tack. PVC sheet flooring. Rubber sheet (Noraplan) and tile. Linoleum up to 3.2mm. Wall claddingand textile flooring. Flotex. Zero Solvent. Gib substrates must be primed for wall applications with PE520	14kg	2-4.5 sqm/kg (45sqm per 14kt Pail) Depending what floor covering is being installed.
KE66	Fibre-reinforced solvent free adhesive for rubber flooring upto 4.0mm thick. Rubber tile flooring adhesive. Ideal for flooring systems with low dimensional stability. Ideal adhesive for Vinyl Planks and Hot pressed Tiles. Interior use only	14kg	2.5-3.5 sqm per kg (40sqm per 14kg pail)

Gilt Edge Industries Ltd

Customer Services
CHC : 03 379 7067 or AKL: 09 443 7067
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

UZIN Adhesive & Primer Selection Chart

Product	Description	Packaging	Approximate Spread Rate
KR 430	2 Part flexible polyurethane adhesive for rubber floor coverings, linoleum and HD sports flooring systems. Can be used as adhesive for floor coverings with goods handling trolleys. Adhesive for Norament and Regupol rubber flooring. Very high final bond strength. Hot and cold resistant. Prime substrates with PE460/PE480 for wet area and exterior installations.	3kg & 8kg	3.0-4.0 sqm per kg (3kg kit – 9.0sqm) (8.0kg kit – 24.0sqm) Mechanically mixed.
WK222	Water based Neoprene Contact Adhesive. Solvent and odour free. For bonding all PVC, skirtings and soft nosings. Residential, Commercial & Industrial applications requiring fast and strong bonding results. Roller or brush applied. Specified roller supplied with pail.	6kg	2.5 sqm per kg Bonded (15sqm per pail)
PE 520 Primer /Sealer	Water based primer for porous substrates prior to adhesive application. Dry primer. Diluted 3:1 with water. Increases adhesive open time and spread rates.	10kg	40/sqm/kg diluted.

PRODUCT DATA SHEET

Universal Textile Adhesive

UZIN UZ 57 NEW

Universal adhesive for all resilient and textile floor coverings

Description:

Very low emission dispersion adhesive with strong thread formation, excellent grab and high final strength. Suitable for almost any type of textile floor covering including materials that are stiff and difficult to bond – for interior use.

Suitable for / on:

- textile coverings with all popular backing constructions, e.g. synthetic secondary backings, latex-foam, secondary backings made from polyester, polypropylene or mixed fibres, with polypropylene fleece and latex-coated
- woven goods, dimensionally stable needlepunch and natural fibre coverings with latexed backings or wool-felt backings and even stiff materials
- felt-backed PVC and cushioned vinyl coverings
- absorbent, prepared surfaces
- UZIN Insulating and Installation Underlays
- normal wear use in domestic, commercial and project locations
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529
- wet-shampoo and spray-extraction cleaning systems

UZIN UZ 57 NEW provides the highest possible level of emission safety and contributes towards creating a healthy indoor climate. Marked with the **"Blue Angel"** for low-emission floor covering adhesives and other installation materials according to RAL-UZ 113.

UZIN ÖKOLINE

GEV-EMICODE EC 1 PLUS very low emission

0736
See date of manufacture on packaging

DER BLAUE ENGEL weil emissionsarm schützt UMWELT und GESUNDHEIT

Composition: Modified polyacrylate copolymers, resins and resin esters of vegetable origin, thickening-, wetting- and de-foaming agents and preservatives (isothiazolinone), other additives, mineral fillers, water.

Product Properties / Benefits:

Premium dispersion adhesive for textile coverings. As a wet adhesive, combines excellent grab, thread formation and high final strength with high demands in respect of workplace protection, indoor air quality and environmental compatibility.

Thanks to its excellent thread formation and wide range of uses, the floor-layer is assured of a fast and reliable installation.

- Easy to spread
- Excellent grab
- Ideal thread formation
- High early and final strength
- Solvent-free
- EMICODE EC 1 PLUS / very low emission PLUS
- RAL-UZ 113 / very low-emission and hence eco-friendly

Technical Data:

Packaging:	plastic drum
Packsize:	14 kg
Shelf life:	min. 12 months
Colour:	cream-white
Consumption:	300 – 550 g / m²
Working temperature:	min. 15 °C / 59 °F at floor level
Open time:	5 – 15 minutes*
Working time:	approx. 20 minutes*
Set to foot traffic:	after 24 hours*
Final strength:	after 3 days*

* At 20 °C / 68 °F and 65 % relative humidity.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | DE-89079 Ulm | Telefon +49 (0)731 4097-0 | Telefax +49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.com

GB | Uzin Ltd. | Unit 2, Mitchell Court | Central Park, Rugby, Warwickshire | CV23 0UY | Phone +44 (0)1788 530 080 | Fax +44 (0)1788 536 508 | E-mail info@uzin.co.uk | Internet www.uzin.co.uk

UZIN UZ 57 NEW

Substrate Preparation:

The substrate must be sound, level, dry, free from cracks, clean and free from materials that would impair adhesion. Test the substrate in accordance with applicable standards and notices and report any deficiencies. Thoroughly vacuum the surface, prime and apply smoothing compound. According to substrate, covering and occupational use, select suitable primers and smoothing compounds from the UZIN Product Guide. Always allow primers and smoothing compounds to dry thoroughly.

Refer to the Product Data Sheets for other products and the floor coverings which are in use.

Application:

1. Apply the adhesive evenly onto the subfloor with a suitable notched trowel (see "Consumption") and leave an open time according to application quantity, climatic conditions, surface absorbency and type of covering. Only apply as much adhesive as can be covered within the working time whilst ensuring good transfer to the backing of the covering.
2. Lay in the covering, rub well down or roll over the whole surface and, after 20 – 30 minutes, repeat. Change notched blades frequently.
3. Remove adhesive contamination whilst still fresh using warm water with a little washing-up liquid or a proprietary carpet spot-cleaner.

Consumption:

Backing Type	Notch Size	Consumption*
Smooth, lightly structured, e.g. textile coverings with foam backing	A2	300 – 350 g / m²
Heavily structured, e.g. secondary backed textile coverings	B1	350 – 450 g / m²
Coarse structured, e.g. woven goods	B2	500 – 550 g / m²

* At 20 °C / 68 °F and 65 % relative humidity on prepared surfaces and with acclimatised adhesive buckets on UZIN NC 170 LevelStar.

Important Notes:

- Shelf life minimum 12 months in original packaging when stored in relatively cool conditions. Frost-resistant to –4 °C. Carefully and tightly reseal opened packaging and use the contents as quickly as possible. Before use, allow the adhesive to come to room temperature.
- Optimum working conditions are 20 °C – 25 °C / 68 °F – 77 °F, floor temperature above 15 °C / 59 °F and relative humidity below 65 %. Low temperatures and high humidity lengthen, and high temperatures and low humidity shorten the working-, setting- and drying- times.
- Damp substrates can lead to secondary emissions and odours. Therefore, only apply on well dried substrates and, on prepared surfaces, ensure best possible drying of the smoothing compound.
- Direct bonding on old adhesive residues can cause interactions and thus unpleasant odour development. Old layers should therefore ideally be removed. At any rate, old adhesive residues need to be reworked with a barrier primer and levelled generously with a self-levelling compound at sufficient thickness (usually 2 mm).
- Before adhering, coverings must be adequately relaxed, acclimatised and matched to the normal climatic conditions expected during later use.
- Strong deformation of the roll ends, hanging bays extremely raised edges or strong curvaturese must be complaint during the adhesion.
- UZIN UZ 57 NEW is certificated by the "See-Berufsgenossenschaft" Hamburg to meet the requirements of Marine Equipment module B and module D. Certificates are available on request. The admitted application quantity is max. 400 g / m².
- Vertical bonding of softer materials can be carried out effortlessly with UZIN UZ 57 NEW. Apply the adhesive to the prepared wall surface using a lambswool roller, immediately comb through with the appropriate notched trowel and leave to develop tack. Lay in the covering and rub down. If necessary, fix at the upper edge with contact adhesive.
- Observe the generally acknowledged rules of the industry and technology for the installation of floor covering as well as the respective applicable national standards. (E.g. EN, DIN, VOB, OE, SIA and others). The following standards and bulletins apply as well, amongst others, or are recommended for special consideration:
  – DIN 18 365 "Working with floor coverings"
  – TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  – BEB publication "Assessment and preparation of substrates"
  – TKB publication "Bonding of textile floor covering"

Protection of the workplace and the environment:

Solvent-free as per TRGS 610. The use of skin protection lotion is recommended as a rule. Store out of the reach of children. Provide thorough ventilation during and after processing / drying! Do not eat, drink or smoke while working with the product. In the event of contact with the eyes or skin, rinse immediately with plenty of water. Do not dispose of into the sewer system, open water or the soil. Clean tools with water and soap immediately after use. The basic prerequisites for optimal room air quality after floor covering work consist of installation conditions conforming to standards and well-dried substrates, primers and levelling compounds. Product contains isothiazolinones. **For allergy information, call +49 (0)731 4097-0 (Germany).**

Disposal:

Collect and reuse product residues wherever possible. Do not dispose of into the sewer system, open water or the soil. Plastic containers emptied or scraped clean and no longer dripping from any residues can be recycled [Interseroh]. Containers with liquid residues are classified as special waste, as are collected liquid product residues. Containers with residues that have dried solid are classified as construction / household waste.

04.13 | 04.13 | 0.000 | LD | leR

PRODUCT DATA SHEET

Highly shear-resistant

Fibre-Reinforced Wet Adhesive

UZIN KE 66

Highly shear-resistant PVC and rubber adhesive with hard adhesive ridges with maximum requirements on room air quality

Description:

Resin-free wet-bed dispersion adhesive for PVC and rubber floorings on absorbent surfaces. With very low open time, easy application and excellent suction, e.g. when installing design boards. Reduces the residual indentation of elastic flooring to a minimum. For interior use.

Suitable for:

- PVC/CV flooring in sheets or tiles
- sheet and tile rubber flooring up to 4 mm with smooth or hammered surface, e.g. norament®, noraplan® or noraplan® acoustic
- PVC design flooring
- heavy wear use in domestic, commercial and industrial locations, e.g. hospitals, highly frequented shopping centres, industrial buildings, etc.
- exposure to castor wheels in accordance with DIN EN 12 529

Suitable on:

- level, absorbent, primed surfaces
- warm water under-floor heating systems

Offers highest possible protection against emissions and contributes in creating a healthy living environment.

Was awarded the **"Blue Angel"** for low-emission floor covering adhesives and other adhesives in compliance with RAL-UZ 113.

UZIN ÖKOLINE

LEED contributed product

GEV-EMICODE EC 1 PLUS very low emission

DER BLAUE ENGEL weil emissionsarm schützt die GESUNDHEIT

Product Properties / Benefits:

The highly shear-resistant dispersion adhesive contributes greatly in minimizing open joints, e.g. for PVC design floor coverings. The resin-free dispersion adhesive is absolutely free from any unpleasant odours, even during application.

Composition: Polystyrene polyacrylate dispersions, thickening, wetting and defoaming agents and preservatives, fibres, mineral fillers, water.

- Odourless during and after application
- High shear resistance
- Low to no open time
- Good suction
- Prevents open joints, e.g. with PVC design floor coverings
- Solvent-free
- EMICODE EC 1 PLUS / very low emission PLUS
- RAL UZ 113 / environmentally friendly, due to very low emissions

Technical Data:

Packaging:	plastic drum
Packsize:	14 kg
Shelf life:	min. 12 months
Colour:	cream white
Consumption:	200 – 280 g / m²
Minimum working temperature:	15 °C / 59 °F on floor
Ideal working temperature:	18 – 25 °C / 64 – 77 °F on floor
Open time tiles, planks:	5 – 10 minutes*
Open time sheet coverings:	15 – 25 minutes*
Laying time:	approx. 10 minutes*
Set to traffic:	after 24 hours*
Final strength:	after 3 days*
Welding / sealing joints:	after 24 hours*

* At 20 °C / 68 °F and 65 % relative humidity.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de

NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN KE 66

Substrate preparation:

The substrate must be sound, level, dry, free from cracks and free of dust that may impair adhesion. Test the substrate in accordance with applicable standards and notices and report any deficiencies. Thoroughly vacuum the surface and apply primer and smoothing compound. According to substrate, covering and occupational use, select suitable primers and smoothing compounds from the UZIN Product Guide.

On non-absorbent or moisture-sensitive substrates, as new mastic asphalt or sealed substrates 2 mm (rubber flooring 3 mm), new calcium sulphate screeds 1 – 2 mm (rubber flooring 2 mm) and existing substrates, apply smoothing compound to a minimum thickness of 2 mm. Always allow primers and smoothing compounds to dry thoroughly. Refer to the Product Data Sheets for other products used.

Application:

1. Apply adhesive evenly to substrate with special notched trowel blade (see "consumption data") and leave an open time according to the application quantity, climatic conditions, substrate absorbency and type of covering. Only apply as much adhesive as can be covered within the working time and with good transfer to the backing of the covering. Lay in covering with short open time, the adhesive ridge has to be impressed.
2. Lay in covering, rub down completely once, e.g. rubber with felt and handle (e.g. Wolff art. 13614) and ensure that head ends and unlevel edges are de-stressed prior to laying to prevent any tension of the covering. Take care to deal with extreme covering deformations. Do not allow any air to enter beneath the covering.Allow the surface to rest for 20 minutes and then roll over again and rub at the edges and joint areas.
3. Remove adhesive residues in fresh condition with pressure-free warm water.

Consumption data:

Covering type / Backing type	Notch trowel	Consumption*
Rubber sheets and tiles up to 4 mm	A 2	ca. 280 g / m²
PVC design coverings PVC coverings	A 2	ca. 280 g / m²
CV flooring	A 2/A 1	200 – 280 g / m²

* At 20 °C / 68 °F and 65 % relative humidity, on substrates smoothed with UZIN NC 170 LevelStar and tempered adhesive containers.

Important notes:

- Original container can be stored for at least 12 months with moderate, cool storage. Protect against frost. Carefully and tightly reseal opened packaging and use the contents as quickly as possible. Allow adhesive to come to room temperature before processing.
- Optimum conditions are 18 – 25 °C / 64 – 77 °F, ground temperature about 15 °C / 59 °F and relative humidity below 65 %. Low temperatures and high humidity levels extend the laying, setting and drying times, while high temperatures and low humidity levels shorten them.
- Moist substrates can result in secondary emissions and odours. Therefore process only on well dried-out substrates and pay attention to maximum and thorough drying of the levelling compound, also in case of smoothed substrates.
- Direct bonding on old adhesive residues can lead to interactions, and with that to unpleasant odour development. Therefore it is ideally recommended to remove old layers. In any case, however, old adhesive residues should be reworked with a blocking primer and smoothed over the entire surface with a self-levelling compound of sufficient thickness (generally 3 mm).
- The coverings must be sufficiently de-stressed, acclimatized and adapted to the room climate which will prevail in later use.
- Ensure that severe roll-end deformation, buckling or squeeze wrinkles, edges sticking up to an extreme degree or covering curvature, are dealt with during bonding.
- In the event of extreme temperatures due to solar radiation, intense mechanical stress by lift truck, forklift, etc. or moisture from above, please use a 2-component polyurethane adhesive e.g. UZIN KR 430. If necessary, please obtain technical advice.
- The following standards, regulations and publications are applicable and especially recommended:
  – DIN 18 365 "Working with floor coverings"
  – TKB specification sheet "Assessment and preparation of surfaces for floor covering and wood flooring installation"
  – BEB specification sheet "Assessment and preparation of surfaces"
  – TKB specification sheet "Adhesion of PVC floor coverings"
  – TKB specification sheet "Adhesion of elastomeric floor coverings"

Protection of the Workplace and the Environment:

Solvent-free. Requires no special protection or precautions in general use. Use of barrier cream and ventilation of the work area are recommended. Keep out of the reach of children. Do not eat, drink or smoke during the installation. After contact with eyes or skin, wash immediately with plenty of water. Do not allow dispersal into drains, sewers or ground. Rinse tools with water and soap immediately after use.

Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound. **Product contains isothiazolinones. Hotline for allergy information +49 (0)731 4097-0.**

Disposal:

Where possible, collect all product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction or Household Waste.

05.12 | 05.12 | msl

PRODUCT DATA SHEET

Standard levelling compound

UZIN NC 145

Self-levelling cementitious levelling compound for thicknesses up to 4 mm

Applications:

Levelling compound for levelling work on standard construction substrates. For the subsequent installation of textile and resilient floor coverings. Pump-ready, for interior application.

Suitable for:

- Subsequent installation of textile and resilient floor covering such as textile flooring, PVC/CV floor covering
- Low wear in residential and commercial areas, e.g. in residential dwellings
- Hot water underfloor heating
- Loads from chair castors according to DIN EN 12 529 from 1 mm compound thickness

Suitable for use on:

- Cementitious screeds, calcium sulphate screeds or concrete
- With old waterproof substrates waterproof with adhesive or compound residues adhering to them

CE

Uzin Utz AG
Dieselstraße 3
D-89079 Ulm

13

01/01/0012.01

EN 13 813 CT–C20–F4
Cement levelling compound for interior floor areas

Fire resistance	A1fl
Compressive strength class	C 20
Flexural strength class	F 4

GEV-EMICODE EC 1 PLUS very low emission

C 20
DIN EN 13 813
F 4

Product benefits / features:

UZIN NC 145 is the ideal product for standard levelling in residential areas. It combines economy with good levelling results.

Composition: Special cements, mineral aggregates, polyvinyl acetate copolymers, liquefiers and additives.

- Good flow characteristics
- Very easy to sand
- GISCODE ZP 1 / low chromate content
- EMICODE EC 1 R PLUS / Very low-emission PLUS

Technical data:

Packaging:	paper bag
Pack size:	25 kg
Shelf life:	min. 6 months
Required water quantity:	approx. 6.0 litres per 25 kg bag
Colour:	grey
Consumption / coverage:	approx. 1.5 kg/m² per mm thickness
Minimum working temperature:	10 °C at ground level
Ideal working temperature:	15 – 25 °C at ground level
Working time:	20 – 40 minutes*
Set to foot traffic:	after 3 hours*
Ready for covering:	after approx. 24 hours*
Fire classification:	A1fl acc. to DIN EN 13 501-1

* At 20 °C and 65 % relative humidity. See also "Ready for covering".

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | DE-89079 Ulm | Telefon +49 (0)731 4097-0 | Telefax +49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.com

GB | Uzin Ltd. | Unit 2, Mitchell Court | Central Park, Rugby, Warwickshire | CV23 0UY | Phone +44 (0)1788 530 080 | Fax +44 (0)1788 536 508 | E-mail info@uzin.co.uk | Internet www.uzin.co.uk

UZIN NC 145

Substrate preparation:

The substrate must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease), that would impair adhesion. Cement and calcium sulphate screeds must be abraded and vacuumed off. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies.

Any adhesion-reducing or unstable layers, e.g. release agents, loose adhesives, compounds, covering or paint residues, etc. must be removed, e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum off loose material and dust. Use a suitable primer from the UZIN Product Guide according to the type and condition of the substrate. Allow any primers that are applied to dry completely.

Refer to the product data sheets for other products used.

Application:

1. Pour approx. 6.0 litres of cold, clean water into a clean container. Add sack contents (25 kg) into the water whilst stirring vigorously until a creamy and lump-free compound is obtained. Use agitator with the UZIN levelling compound stirrer.
2. Pour compound onto the substrate and spread uniformly with the smoothing trowel or the UZIN screed rake, notch size R 2. The flow and surface can be improved even more by aerating with the UZIN spike roller. Preferably apply the desired thickness in one application.

Consumption information:

Thickness	Consumption	Approx. coverage per 25 kg sack
1 mm	1.5 kg/m²	17 m²
3 mm	4.5 kg/m²	6 m²

Readiness for covering:

Thickness	Consumption
3 mm	24 hours*

* At 20 °C and 65 % relative humidity.

Important notes:

- Shelf life at least 6 months in original packaging when stored in dry conditions. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- Optimum processing at 15 – 25 °C and relative humidity below 65 %. Low temperatures, high humidity, high thickness, non-absorbent or blocked substrates will delay setting, drying and readiness for covering. High temperatures, low humidity and absorbent substrates accelerate setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- Expansion, movement and perimeter joints in the substrate must be reflected through to the surface. Fit UZIN Foam Expansion Strips to any adjoining rising structures to prevent ingress of the compound into the connection joints.
- Can be pumped with continuously mixing spiral pumps, e.g. from manufacturers such as m-tec, P.F.T. and others. Use subsequent agitator.
- Not suitable for use on chipboard and OSB panels.
- Minimum thickness for resistance to castors is 1 mm. On non-absorbent substrates such as old screeds, a closed firmly adhering waterproof adhesive bed with a thickness of 2 – 3 mm must generally be applied.
- When smoothing in several layers allow compound to dry completely, apply UZIN PE 360 as intermediate primer and smooth subsequently after drying. The second smoothed layer must not exceed the thickness of the first one.
- On weak older substrates with several layers of adhesive or levelling compound the use of gypsum-based levelling compounds such as UZIN NC 110 or UZIN NC 115 is to be preferred.
- Do not use in exterior or wet areas.
- Protect freshly smoothed areas from draughts, direct sunlight and sources of heat. Cementitious compound layers on soft or tacky substrates tend to form cracks. These soft or tacky layers must therefore be removed as much as possible before applying smoothing compounds. Leaving such compound layers open too long also promotes such cracking and should therefore be avoided.
- Do not use as wearing floor covering or wearing surface; always apply a top covering.
- Amongst others, the following standards, guidelines and bulletins represent supporting information and are recommended for special attention.
  - DIN 18 365 "Working with floor coverings"
  - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  - BEB publication "Assessment and preparation of substrates"
  - TKB publication "Technical description and processing of floor levelling compounds"

Protection of the workplace and the environment:

Contains cement, low chromate content as per directive 2003/53/EC – GISCODE ZP 1. Store out of reach from children! Wear nitrile-soaked cotton gloves. Wear protective dust mask when mixing. Ensure thorough ventilation during and after working / drying! Do not eat, drink or smoke while working with the product. In the event of contact with the eyes or skin, rinse immediately with plenty of water. Do not dispose of into the sewer system, open water or the soil. Clean tools with water and soap immediately after use. The basic prerequisites for optimal room air quality after floor covering work consist of installation conditions conforming to standards and well-dried substrates, primers and levelling compounds.

Disposal:

Do not dispose of into the sewer system, open water or the soil. Paper sacks can be recycled when emptied and free from any residues [Interseroh]. Collect product residues, mix with water, allow to harden and dispose of as construction waste.

02.13 | 02.13 | 0.000 | LD | leR

PRODUCT DATA SHEET

Smoothing Compound

UZIN NC 160

20 ANNIVERSARY Uzin Ltd. Special Edition

Self-levelling cement floor smoothing compound for thickness up to 20 mm

Description:

Very low emission, self-levelling, cement compound for smoothing, levelling and repairing substrates in interior locations.

Suitable for / on:

- producing level, absorbent, prepared surfaces for textile and resilient floor coverings of all types, e.g. textile coverings, PVC or cushioned vinyl, PVC design flooring, linoleum, cork, rubber or polyolefin coverings
- new substrates, e.g. cement- and calcium sulphatescreeds or concrete
- new, sound, screw-fixed chipboards V 100* or OSB boards*
- new and to only a limited extent existing mastic asphalt (see "Important Notes")
- existing substrates, e.g. on dense, well-bonded, waterproof adhesive bed, existing ceramic and natural stone flooring, terazzo and the like
- magnesia- and stonewood-screeds, dry screed materials
- heavy wear use in domestic and comercial locations
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529 from 1 mm level thickness

Product Properties / Benefits:

Plasticised dry powder mortar mix with special fine aggregate. When mixed with water, produces a hydraulic setting, high quality smoothing compound with excellent application and usage properties. The special advantage of UZIN NC 160 is the combination of the very high strength, the best application properties and the high absorbency.

CE

UZIN UTZ AG
Dieselstraße 3
D-89079 Ulm
06

EN 13813 CT–C30–F7
Cementious levelling compound for substrates in interior locations

Fire resistance	A 1 fl
Compressive strength	C 30
Tensile strength	F 7

C 30 DIN EN 13 813 F7

GEV-EMICODE EC 1 PLUS very low emission

Composition: Special cements, mineral aggregates, polyvinylacetate copolymers, flow agents and additives.

- Fantastic Coverage
- For thickness up to 20 mm
- High absorbency
- Very low stress
- Easy to rub down
- Very high compressive and tensile strengths
- Low chromate content
- EMICODE EC 1 R PLUS / Very low emission PLUS

Technical Data:

Packaging:	paper sack
Packsize:	20 kg
Shelf life:	min. 6 months
Required water quantity:	4.8 – 5.2 litres per 20 kg sack
Colour:	grey
Consumption:	approx. 15 kg / m² per mixed unit at 1 mm thick
Working temperature:	min. 15 °C / 59 °F
Working time:	20 – 30 minutes*
Set to foot traffic:	after approx. 2 hours*
Ready for covering:	after approx. 24 hours*

* At 20 °C / 68 °F and 65 % relative humidity in limited thickness up to 3 mm. See also "Application" point 3.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN NC 160

Substrate Preparation:

The substrate must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease) that would impair adhesion. Calcium sulphate screeds must be abraded and vacuumed as a special finishing process, either as a final treatment by the screed installer or as a special and chargeable service by the covering installer. Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Any weakly bonded or soft surface layers, e.g. separating agents, loose residues of adhesives, levelling compounds, coverings or coatings must be removed e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum off all loose material and dust. According to type and condition of the substrate, select suitable primer from the UZIN Product Guide. Allow applied primer to dry completely. Always gritblind reaction resin primers such as e.g. 2-Component Epoxy Primer-Sealer UZIN PE 460.

Refer to the Product Data Sheets for other products used.

Application:

1. Put 4.8 – 5.2 litres of cold clean water into a clean container. Sprinkle in the sack contents (20 kg) whilst stirring vigorously and mix to a viscous, lump-free consistency. Use a drill or mixer fitted with a UZIN Mixing Paddle. Do not mix too thin.
2. Pour out the mix onto the primed subfloor and distribute evenly with a smoothing trowel or rake. Where possible, apply to the desired thickness in one application. To improve flow and surface finish, remove air from the still-wet compound using the UZIN Spike Roller. Where possible, apply to the desired thickness in one application.
3. Ready for covering after approx. 24 hours per 3 mm of thickness*. Sanding off with 36 – 60 grade grit-paper increases surface quality, improves appearance and absorbency.

* At 20 °C / 68 °F and 65 % relative humidity.

Consumption:

Thickness	Approx. coverage per 20 kg sack
1 mm	15 m²
3 mm	5 m²
10 mm	1.5 m²

Important Notes:

- Shelf life minimum 6 months in original packaging when stored in dry conditions. Carefully and tightly reseal opened packaging and use the contents as quickly as possible.
- Optimum conditions are 15 – 25 °C / 59 – 77 °F and relative humidity below 65 %. Low temperatures, high humidity and greater thickness will delay, whilst high temperatures and low humidity will accelerate the setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- Expansion-, movement- and wall-connection-joints must be reflected through from the substrate. Where necessary, fit UZIN Expansion Strips to any structures to prevent ingress of the mix into connection joints. For thickness above 5 mm, expansion strips are usually necessary.
- Pumpable using continuous-feed mixer-pumps, e.g. m-tec duo mix, P.F.T.-Monojet, etc.
- Minimum 1 mm thickness for resistance to castors. On non-absorbent surfaces, e.g. new mastic asphalt, apply a thickness of 2 – 3 mm.
- When applying in several coats, allow the compound to dry completely, prime with UZIN PE 360 and, when this is dry (approx. 1 hour*), apply the next coat. The second coat must not be thicker than the first.
- For thickness above 10 mm, the mix should be extended with up to 50 % (equal to 12.5 kg / sack) of dry UZIN Quartz Sand 1 – 2.5 mm.
- For thickness above 10 mm on surfaces that are moisturesensitive (calcium sulphate screeds) or weak (old adhesive residues), use epoxy resin primer, such as UZIN PE 460 gritted.
- On new mastic asphalt that conforms to standards, thickness up to max. 5 mm is permissible. For use on old mastic asphalt, obtain technical advice.
- Do not use in exterior or wet areas.
- Protect freshly applied surfaces from draughts, direct sunlight and sources of heat. On soft or tacky surfaces, cement-based compounds have a tendency to crack. Therefore, soft or tacky material must be removed as far as possible before applying the compound. Also, leaving such compounds uncovered for too long promotes cracking and should be avoided.
- Do not use as a screed or as a wearing surface – a surface covering or coating must always be applied.
- The following standards, regulations and publications are applicable and especially recommended:
  – DIN 18 352 "Working with large and small format tiling"
  – TKB publication "Assessment and preparation of surfaces for floor covering and wood flooring installation"
  – BEB publication "Assessment and preparation of surfaces"

Protection of the Workplace and the Environment:

Irritant. Contains cement low in chromate acc. Directive 2003/53/EC. Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse thoroughly and immediately with water. In the event of skin or eye irritation, consult a doctor. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured. Meets EMICODE EC 1 R PLUS requirements (less than 200 micro-grams per cubic metre of Volatile Organic Compound emission) for maximum user safety and promoting healthier Indoor Air.

Disposal:

Dispose of empty packaging according to local regulations. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.

05.12 | 05.12 | msl

PRODUCT DATA SHEET

Premium Levelling Compound

UZIN NC 170 LevelStar

Self-levelling, extremely smooth cement-based levelling compound with Level Plus Effect for every layer thickness range

Description:

Filling, smoothing and levelling compound with high-performance plasticiser technology prior to the laying of textile and elastic floor coverings of all types, wood flooring as well as ceramics and natural stone linings. Pumpable. For interior use only.

Suitable for / on:

- the subsequent laying of textile and elastic floor coverings of all types
- the subsequent laying of wood flooring
- the subsequent laying of ceramics and natural stone coverings
- high stressing loads in the residential, commercial and industrial sectors, e.g. hospitals, highly-frequented shopping centres, industrial halls etc.
- warm water underfloor heating
- loading with chair castors according to DIN EN 12 529 above 1 mm underlay level thickness

Offers highest possible protection against emissions and contributes in creating a healthy living environment.

Was awarded the **"Blue Angel"** for low-emission floor covering adhesives and other adhesives in compliance with RAL-UZ 113.

CE

Uzin Utz AG
Dieselstraße 3
D-89079 Ulm

See date of manufacture on the packaging

EN 13 813 CT–C35–F7
Cementious levelling compound for substrates in interior locations

Fire resistance	$A1_{fl}$
Compressive strength	C35
Tensile strength	F7

UZIN ÖKOLINE

GEV-EMICODE EC 1 very low emission

C35 DIN EN 13 813 F7

DER BLAUE ENGEL well emissionsarm schützt UMWELT und GESUNDHEIT

0736

Composition: Special cements, mineral aggregates, polyvinyl acetate copolymers, high-performance plasticisers and additives.

- Extremely good application characteristics
- Very smooth surface
- Very easy adhesive application
- Up to 10 % less adhesive consumption
- Very good absorption capacity
- Shear-resistant under wood flooring
- Low chromate content
- EMICODE EC 1 R / Very low emissions
- RAL UZ 113 / environmentally friendly, due to very low emissions

Technical Data:

Packaging:	paper sack
Packsize:	20 kg
Shelf life:	min. 6 months
Required water quantity:	5.25 litres per 20 kg sack
Colour:	grey
Consumption:	approx. 1.4 kg / m² per mm thickness
Min. working temperature:	10 °C / 50 °F at floor level
Ideal working temperature:	15 – 25 °C / 59 – 77 °F
Working time:	20 – 30 minutes*
Set to foot traffic:	after 1 – 2 hours*
Dry for covering:	after approx. 18 hours*
Fire classification:	$A1_{fl}$ acc. to DIN EN 13 501-1

* At 20 °C / 68 °F and 65 % relative air humidity with maximum thickness of 3 mm. See also "Application – Drying".

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | DE-89079 Ulm | Telefon +49 (0)731 4097-0 | Telefax +49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.com
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | 5 Clayden Dr. | Gulf Harbour | Whangaparaoa 0943 | New Zealand | Phone +64 9 424 0366 | Fax +64 9 428 1643
E-mail ufloor-systems@xtra.co.nz | Internet www.uzin.com

UZIN NC 170 LevelStar

Areas of use:

Suitable on:

- cement screeds, calcium sulphate screeds or concrete
- new, fixed-screwed chipboards V 100 or OSB boards
- existing ceramic and natural stone coverings, terrazzo and similar.
- new (and dependent on age) mastic asphalt screeds, as well as scraping troweling on asphaltic fine concrete
- magnesia and stone wood screeds
- pre-cast component covers, e.g. gypsum fibre board

Product Properties / Benefits:

High-quality, premium levelling compound with novel raw-material technology and super-plasticiser. As a result of the special composition, the Level Plus Effect results from extremely good flow characteristics, very smooth surface, uniform and homogeneous surface appearance, as well as a consumption reduction of adhesive with subsequent working with adhesive. The adhesive is meshed uniformly and effortlessly with the very absorbent surface. As a result of that, the floor covering surface is smoother and more uniform in case of the laying of sensitive, elastic linings. Abrasives and toothed strips are less worn and can be employed for a longer time.

Premium compound for new and old construction, with high strength, low-stress characteristics and for high loading demands. Extreme over-water stability and shear-resistant under parquet.

UZIN NC 170 LevelStar is employed where the substrates are difficult, where the stressing from use is highest and where the user wishes to deliver a perfect result.

Application Example:

In this historical cloister area with a clinic operation UZIN NC 170 LevelStar was applied in different thicknesses on the most difficult substrates. The result is a perfect surface with optimal spread characteristics, and of course without any cracks.

On other floors, stressed, highly-loaded floor coverings were laid on NC UZIN 170 LevelStar. The appearance is high-quality and there are no longer any corrugations or trowel marks with this premium levelling compound.

UZIN NC 170 LevelStar

Substrate Preparation:

The substrate must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease) which would impair adhesion. Cement and calcium sulphate screeds must be sanded and vacuumed off. Test the substrate in accordance with applicable standards and specification sheets and report any deficiencies.

Remove any adhesion-reducing or unstable layers, e.g. separating agents, levelling compounds, covering or paint coat residues etc. by brushing-off, abrading, grinding or shot-blasting. Thoroughly vacuum off loose material and dust. According to type and characteristic quality of the substrate, select a suitable priming from the UZIN product range. Allow primer to dry out completely.

Refer to the Product Data Sheets for other products used.

Application:

1. Put 5.25 litres of cold, clear water into a container. Sprinkle in the sack contents (20 kg) while stirring vigorously and blend to a semi-viscous, lump-free mixture. Use a drill-mixer with the UZIN levelling compound mixing accessory.
2. Pour out the mixture onto the substrate and distribute evenly with a smoothing trowel or the UZIN surface rake. In case of thicker coats and/or when the rake is used, the already excellent flow and surface characteristics can be further improved by removing air with the UZIN spike roller. Where possible, apply the required layer thickness in one work operation.

Consumption:

Thickness	Consumption	Approx. coverage per 20 kg sack
1 mm	1.4 kg/m²	14 m²
3 mm	4.2 kg/m²	4.75 m²
10 mm	14.0 kg/m²	1.4 m²

Spreading UZIN NC 170 LevelStar:

Thickness	Ideal spreading quality and make-up quantities
10 – 15 mm	30 % UZIN Fine Sand 0.8 (6 kg sand / 20 kg powder)
15 – 30 mm	50 % UZIN Coarse Sand 2.5 (10 kg sand / 20 kg powder)
30 – 50 mm	50 % screed sand 0/8 (10 kg sand / 20 kg powder)

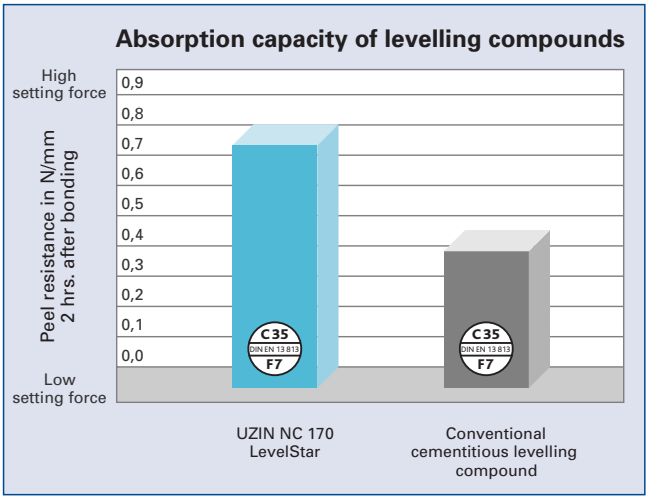
According to sand, thickness and moisture content, the water factor is to be correspondingly reduced.

Ready for Application:

Thickness	Ready for application
3 mm	18 hours*
5 mm	24 hours*
10 mm	48 hours*
20 mm	72 hours*

* With 20 °C / 68 °F and 65 % relative air humidity.

Practical Note:



The absorbency of the new premium levelling compound is approx. twice as high as previous levelling compounds. The open time of the adhesive during the laying is considerably reduced in comparison with usual compounds. The installer of the covering works far faster and the overall appearance of the finished floor covering surface is very smooth and flat.

UZIN NC 170 LevelStar

Important Notes:

- Shelf life minimum 6 months in original containers when stored in dry conditions. Tightly re-seal opened containers and use the contents as quickly as possible.
- Optimum working conditions are 15 – 25 °C / 59 – 77 °F and relative humidity below 65 %. Low temperatures, high humidity and greater thickness will delay, whilst high temperatures and low humidity will accelerate the setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- Expansion, movement and wall connection joints resulting from the substrate must be taken up. As required, fit UZIN expansion strips against adjacent structures to prevent ingress of the compound into connection joints. For thickness above 5 mm, expansion strips should be used.
- Pumpable with continuous feed mixer-pumps, e. g. from the manufacturers m-tec, P. F. T. and other. Employ a remixer.
- Minimum 1 mm thickness for resistance to castor wheels. On non-absorbent surfaces, such as e. g. old screeds with a full cover of old, waterproof adhesive, apply 2 – 3 mm.
- If additional coats are required, allow the compound to dry out completely, intermediate-prime with UZIN PE 520 and after drying (1 hour*) apply the next coat. The second compound application must not exceed the layer thickness of the first coat.
- Under wood flooring, the minimum layer thickness is 2 mm.
- In case of thicknesses above 10 mm, on moisture-sensitive (calcium sulphate screeds) or unstable substrates (e. g. adhesive residues), epoxy resin primers should be used, e. g. UZIN PE 460 gritted.
- In case of unstable old substrate bases with several adhesive or levelling compound layers, the use of a gypsum-based levelling compound, such as UZIN NC 110 or UZIN NC 115, is preferable.
- In case of freshly poured asphalt screeding, thicknesses to max. 5 mm are admissible, and in case of older poured asphalt screeding with old layers, thicknesses to max. 3 mm are admissible. In case of higher thicknesses, gypsum-based levelling compounds, such as e. g. UZIN NC 110 or UZIN NC 115, are to be employed.
- Do not use in exterior or wet areas.
- Protect freshly prepared surfaces from draughts, direct sunlight and sources of heat. On soft or tacky surfaces, cement-based levelling compounds have a tendency to crack. Therefore, soft or tacky surfaces must be removed as far as possible before applying the levelling compound. Levelling compounds left uncovered for too long will also tend to crack formation and therefore this should be avoided.
- Do not use as a screed cement or as a wearing surface – a covering must always be applied.
- UZIN NC 170 LevelStar is a component part of the system "Lowest cover coating", consisting of UZIN NC 170 LevelStar, UZIN PE 520, UZIN PE 460 and UZIN Fine Sand 0.8. This system has certification as a marine equipment product from the Hamburg Marine Trade Social Insurance against Occupational Accidents, Module B and Module D. Certificates are available on request. The authorised thickness is 8 mm. USCG-No. Module B 164.106 / EC0736 / 113.069.
- The following standards, regulations and publications are applicable and especially recommended:
  - DIN 18 365 "Working with floor coverings"
  - DIN 18 356 "Working with parquet and wood blocks"
  - DIN 18 352 "Working with tiles and panels"
  - TKB publication "Assessment and preparation of substrates for floor covering and parquet work"
  - TKB publication "Technical description and processing of cement floor levelling compound"
  - BEB publication "Assessing and preparation of substrates"

Protection of the Workplace and the Environment:

Contains cement low in chromate acc. Directive 2003/53/EC. Keep out of the reach of children! Please observe the information on the bottom of the bag! Use nitrile impregnated cotton-gloves. During mixing wear a suitable dust-mask. Thorough ventilation must be ensured during and after the installation and drying time of the product. Drinking, eating and smoking are prohibited during the installation. After contact with eyes or skin, wash immediately with plenty of water. Rinse tools with water and soap immediately after use. Produces no physiological or ecological risk when fully cured.

EMICODE EC 1 R – very low emission.Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC).

Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.
Hotline for allergy information +49 (0)731 4097-0

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty paper bags are recyclable. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.

PRODUCT DATA SHEET

Quick-drying even at low temperatures

Low-slump repair compound

UZIN NC 182

Low-slump, fine and very quick-drying cement smoothing compound for any thickness range

Applications:

Low-slump rapid repair mortar for floor covering and wood flooring installation. No thickness limits. For interior use only.

Suitable for:

- producing absorbent, high-strength, ready for covering installation areas in a short amount of time
- filling holes and cracks in most types of substrate particularly screeds or concrete floors
- edge or repair work before final smoothing and gluing
- patching of staircases and landings
- high durability in residential, commercial and industrial areas
- Hot water underfloor heating
- chair castors according to DIN EN 12 529 from 1 mm compound thickness

Suitable on:

- new or old cement, calcium sulphate screeds (may need a primer), stone-wood (Granwood) screeds, concrete, dense mineral-based substrates and similar
- new chipboards P4 – P7 or OSB 2 – OSB 4 boards (each solidly fixed)
- old substrates with strongly bonded waterproof adhesive and smoothing compound residues
- also as "low-slump" surface compound on old adhesive residues and for filling down too a "feather-edge"
- as system component in rapid construction

Provides the highest possible level of emission safety and contributes towards creating a healthy room environment.

Marked with the "Blue Angel" signifying low-emission floor covering adhesives and other installation materials according to RAL-UZ 113.

CE

UZIN UTZ AG
Dieselstraße 3
D-89079 Ulm

Refer to the production date on the packaging

EN 13 813 CT–C30–F7
Low-slump repair compound on cement base for interior floor areas

Fire resistance	A 1$_{fl}$
Compressive strength class	C 30
Flexural strength class	F 7

UZIN ÖKOLINE

GEV-EMICODE EC 1 R PLUS very low emission

DER BLAUE ENGEL weil emissionsarm schützt UMWELT und GESUNDHEIT

0736
UZIN NC 182 / codex PE 370

C 30
DIN EN 13 813
F 7

Product benefits / features:

When mixed with water produces a quick-drying, ready for covering mortar with good working properties. Its rapid setting characteristics allow for further priming, filling or gluing work after a short amount of time. Filling and finishing down to a feather-edge is easily achievable with UZIN NC 182.

Composition: Special cements, mineral aggregates, polyvinyl acetate copolymers and additives.

- Ready for covering after 60 min.
- Hydraulically setting
- From feather-edge to high thicknesses
- Ideal working properties
- Fine grain, eliminates smoothing edges
- Low chromate content
- EMICODE EC 1 R PLUS / very low emission
- RAL UZ 113 / environmentally compatible because of very low emission

Technical Data:

Packaging:	paper sack
Packsizes:	20 kg, 12.5 kg with carry-handle
Shelf life:	min. 12 months
Required water quantity:	5 – 6 litres per 20 kg sack 3 – 3.75 litres per 12.5 kg sack
Partial quantity processing:	250 – 300 ml water for 1 kg powder
Colour:	grey
Consumption:	approx. 1.5 kg/m² per mm thickness
Working temperature:	10 °C / 50 °F at floor level
Working time:	10 – 15 minutes*
Trimming edges:	after approx. 15 minutes*
Ready for foot traffic / can be skimmed over:	after approx. 25 minutes*
Ready for covering:	after 60 minutes*

*At 20 °C / 68 °F and 65 % relative humidity. See also "Ready for covering".

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | DE-89079 Ulm | Telefon +49 (0)731 4097-0 | Telefax +49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.com
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | 5 Clayden Dr. | Gulf Harbour | Whangaparaoa 0943 | New Zealand | Phone +64 9 424 0366 | Fax +64 9 428 1643
E-mail ufloor-systems@xtra.co.nz | Internet www.uzin.com

UZIN NC 182

Substrate preparation:

The substrate must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease), that would impair adhesion. Cement and calcium sulphate screeds must be abraded and vacuumed and in some circumstances primed. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies.

Any deleterious or unstable layers, e.g. release agents, loose adhesives, compounds, covering or paint residues etc. must be removed, e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum off loose material and dust. Select a suitable primer from the UZIN Product Guide according to the type and condition of the substrate. Prior priming is not required for certain substrates, such as old screeds with dense, well-adhering, waterproof adhesive residues. Primer generally to be applied for thicknesses over 3 mm. Allow any primers that are applied to dry completely.

Refer to the product data sheets for other products used.

Application:

1. Mix UZIN NC 182 with water to the desired consistency. For 20 kg, the correct water quantity is 5 – 6 litres, however, as it is normally mixed in partial quantities, use 250 – 300 ml of water for 1 kg of powder. Pour the cold, clean water into a clean container. Sprinkle in the powder whilst mixing vigorously and mix until lump-free. Only mix as much mortar as can be applied within the working time of approx. 10 – 15 minutes*.
2. Apply the compound evenly onto the substrate at the desired thickness using a smoothing trowel, leave approx. 25 minutes* and then rework or smooth. Best applied to the required thickness in one application.

*At 20 °C / 68 °F and 65 % relative humidity.

Consumption information:

Thickness	Consumption	Approx. coverage per 20 kg sack
1 mm	1.5 kg/m²	14 m²
3 mm	4.5 kg/m²	5 m²
10 mm	15.0 kg/m²	1.5 m²

Readiness for covering:

Thickness	Ready for covering at 20 °C / 65 % rel. humidity	Ready for covering at 10 °C / 80 % rel. humidity
1 – 30 mm	1 hour	Approx. 1.5 hours

Important notes:

- Shelf life at least 12 months in original packaging when stored in dry conditions. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- Optimum workability at 15 – 20 °C / 59 – 68 °F and relative humidity below 65 %. Low temperatures, high humidity and greater thickness will delay drying, whilst high temperatures and low humidity will accelerate setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- Expansion, movement and wall connection joints in the substrate must be reflected through to the surface. As necessary, fit UZIN Foam Expansion Strips to any adjoining structures to prevent ingress of the compound into the construction joints. Expansion strips are generally necessary for thicknesses over 5 mm.
- Minimum thickness for resistance to castors is 1 mm.
- When subsequently smoothing with self-levelling compound, or if applied in several coats, allow to dry completely, apply UZIN PE 520 as intermediate primer and smooth after drying (approx. 1 hour*).
- For greater thicknesses, above 10 mm, the compound is best bulked out with up to 50 % (equivalent to 10 kg / sack) of dry UZIN Quartz Sand, grain-size 1 – 2.5 mm.
- For thicknesses above 10 mm, as well as on moisture-sensitive (calcium sulphate screeds) or weak substrates (adhesive residues), it is best to use resin primers, such as 2-component Epoxy Primer-Sealer UZIN PE 460 gritted.
- For new poured asphalt (not Macadam), chipboard P4 – P7, OSB 2 – OSB 4 boards or screeds with adhesive residues (without using a primer), thicknesses up to 3 mm are permitted. For older poured asphalt or greater thicknesses, the use of calcium sulphate-based levelling compounds, such as UZIN NC 118, is recommended.
- In case of using dispersion based adhesives on a layer < 1 mm of UZIN 182 priming with e.g. Primer UZIN PE 520 is recommended.
- Do not use in exterior or wet areas.
- Protect freshly smoothed areas from draughts, direct sunlight and sources of heat. Cementitious compound layers on soft or tacky substrates tend to form cracks. Soft or tacky layers should therefore be removed before applying smoothing compounds. Leaving such compound layers open too long also promotes such cracking and should therefore be avoided.
- Do not use as screed or wearing surface; always apply a top covering.
- UZIN NC 182 is a component of the "Lowest Covering" system, consisting of UZIN NC 182 and codex PE 370. This system is approved by the maritime occupational association "See Berufsgenossenschaft Hamburg", module B and module D. Certificates are available upon request. The permissible thickness is approx. 5 mm. USCG-No. for the system is module B 164.106 / EC0736 / 113.101.
- Follow the generally acknowledged "best practice" requirements and technology for the installation of floor covering as well as all respective applicable standards (e.g. EN, DIN, OE, SIA, etc.). The following standards and bulletins represent supporting information and are recommended for special attention.
  – DIN 18 365 "Working with floor coverings"
  – DIN 18 356 "Working with wood flooring and wood-blocks"
  – TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  – TKB publication "Technical description and processing of cementitious floor levelling compounds"
  – BEB publication "Assessment and preparation of substrates"

Protection of the workplace and the environment:

Contains cement low in chromate acc. Directive 2003/53/EC. Keep out of the reach of children! Please observe the information on the bottom of the bag! Use nitrile impregnated cotton-gloves. During mixing wear a suitable dust-mask. Thorough ventilation must be ensured during and after the installation and drying time of the product. Drinking, eating and smoking are prohibited during the installation. After contact with eyes or skin, wash immediately with plenty of water. Rinse tools with water and soap immediately after use. Produces no physiological or ecological risk when fully cured.

EMICODE EC 1 R PLUS – very low emission. Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC).

Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

Hotline for allergy information +49 (0)731 4097-0

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty paper bags are recyclable. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.

TECHNICAL DATA SHEET

UZIN Turbolight®-System

UZIN NC194

Rapid construction and renovation system

System composition for the produce of substrates quickly ready for covering for all types of floor coverings

- Substructure for compensating uneven surfaces and pitted substrates
- Flooring construction on critical substrates
- Used as a rapid system, flooring should be laid soon after
- For levelling between pipework

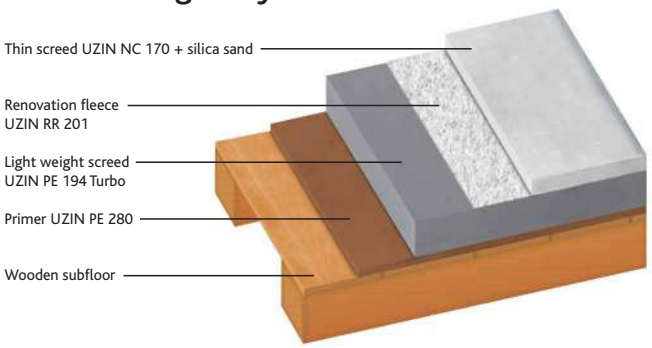
Application:

- On wooden substrates and floorboards
- On concrete subfloors
- Able to meet the demands of home, office and assembly area use (see table)
- Bonded screed layer oras a separating layer
- For all types of floor coverings
- For all types of ceramic tiles and natural stone – also for large dimensions

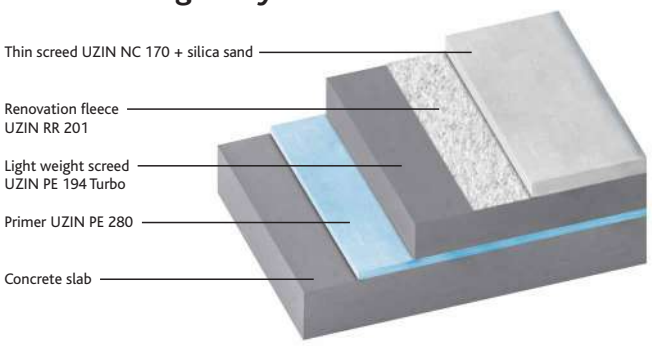
Properties:

- System composition from the bare floor to the floor covering
- Rapid system
- Low specific weight
- Low distributed loads (see table)
- Good sound absorption (Rated footfall sound insulation: 10 dB)
- High heat insulation properties
- Not combustible
- Suitable for wet rooms
- Max. area of application 100 m²

UZIN Turbolight®-System on wooden subfloor:



UZIN Turbolight®-System on concrete subfloors:



UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

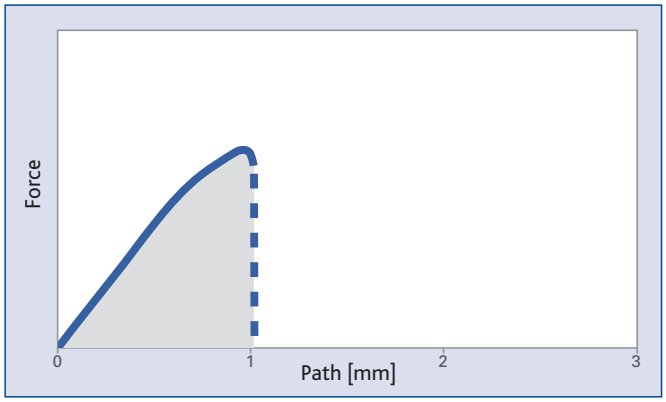
UZIN Turbolight®-System – Technical data of the system components

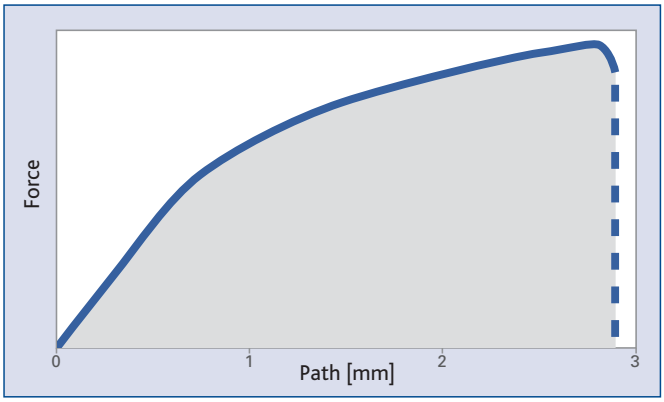
	UZIN NC 194 Turbo**	UZIN NC 170 + silica sand**	UZIN RR 201**
Specific density (cured)	0.35 kg / l	1.6 kg / l	–
Compressive strength	0.5 N / mm²	30 N / mm²	–
Flexural strength	–	7 N / mm²	–
Tensile strength	–	–	1700 N / mm²
Thermal coefficient	0.12 W / mK	–	–
Flammability class (DIN 4102)	A 2	A 1	A 1
Required amount of water	approx. 10 l / bag	approx. 5 l / bag	–
Working time	approx. 30 min.*	20 – 30 min.*	–
Ready for foot traffic after	3 – 5 hrs.*	2 – 3 hrs.*	immediately
GISCODE	ZP 1 / low chromate content	ZP 1 / low chromate content	none
Consumption (dry mortar)	2.6 kg / m² x cm thickness	20 kg / m² or 25 kg/m²	after m²
Shelf life	min. 6 months	min. 6 months	min. 2 years
Packsize	80 l / 21 kg bag	20 kg bag	1.05 x 75 m
Item no.	53402	62119	52154

* at 20 °C / 65 % rel. hum. **Product data sheet retrievable at www.uzin.de

UZIN Turbolight®-System – Technical data and load bearing characteristics

Force / path diagram in pressure test





When subjected to a pressure test (based on DIN 18 555), the substructure, consisting of UZIN NC 194 Turbo and UZIN NC 170, shows a steeply rising curve. The curve terminates abruptly, i. e. the combination fails because of a brittle fracture. The area under the curve (grey), defining the energy absorption capabilities of the substructure, is relatively low.

The curve for the UZIN Turbolight®-System also rises steeply, indicating the system's low level of deformation. The displacement that occurs at higher loads reveals a very well-tempered response with high levels of load compensation and reserves, as a result of the energy absorbed (grey area).

The materials used in the UZIN Turbolight®-System may exhibit hairline fissuring. Long-fibre reinforcement means that these do not affect the functional capability of the overall system, however.

UZIN Turbolight®-System – recommended max. loads

Covering	Thin screed volume	Max. area load	Max. point load	Class (DIN 1055-3)
Textile/resilient flooring and laminates	20 kg/m²	3 kN/m²	3 kN	A, B1, B2
Textile/resilient flooring and laminates	25 kg/m²	4 kN/m²	4 kN	A, B, C1, C2
Natural stone less than 10 mm thick, ceramic tiles with edge length up to 10 cm	20 kg/m²	3 kN/m²	2 kN	A, B1
Natural stone (min. 10 mm thick) and ceramic tiles with edge length longer than 10 cm	20 kg/m²	3 kN/m²	3 kN	A, B1, B2
Natural stone (min. 10 mm thick) and ceramic tiles with edge length longer than 10 cm	25 kg/m²	4 kN/m²	4 kN	A, B, C1, C2

UZIN Turbolight®-System

UZIN Turbolight®-System – weight per sqm

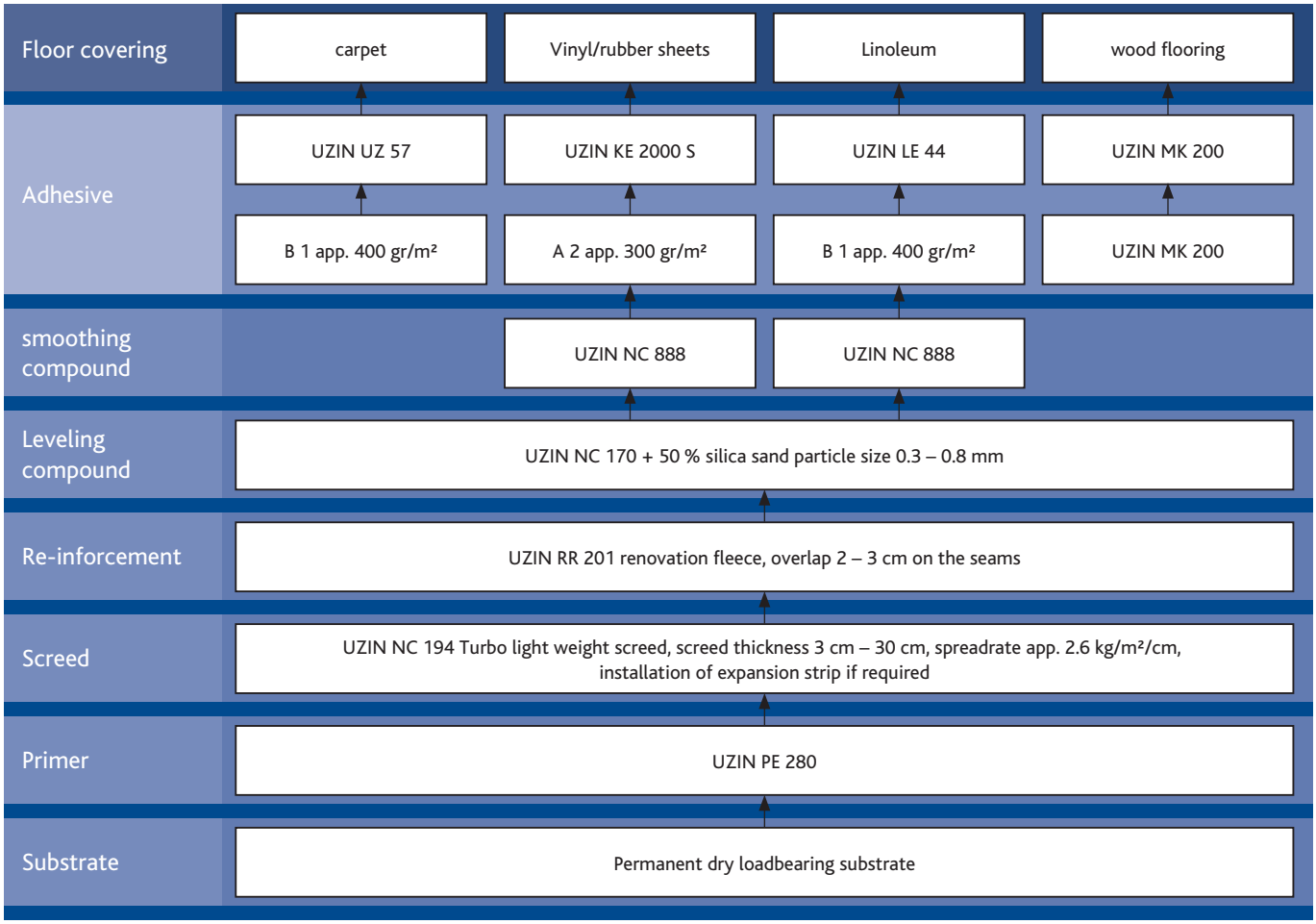
Application height, total	Application height, UZIN NC 194 Turbo	Weight per sqm, UZIN NC 170	Overall weight per sqm
~ 4 cm	3 cm	20 kg/m²	33,5 kg/m²
~ 4,5 cm	3 cm	25 kg/m²	39,5 kg/m²
~ 6 cm	5 cm	20 kg/m²	40,5 kg/m²
~ 6,5 cm	5 cm	25 kg/m²	46,5 kg/m²

The weight increases by 3.5 kg/m² for each additional centimetre of application height.

Readiness for covering of the UZIN Turbolight®-System

Thickness/weight of floor covering	Readiness for covering of	Material to be installed	Time to readiness for covering
up to 5 cm	UZIN NC 194 Turbo	UZIN NC 170 + silica sand	1 day
over 5 cm	UZIN NC 194 Turbo	UZIN NC 170 + silica sand	2 days
20 or 25 kg/m²	UZIN NC 170 + silica sand	Textile/resilient floor coverings	1 day
20 or 25 kg/m²	UZIN NC 170 + silica sand	Wood flooring	1 day
20 or 25 kg/m²	UZIN NC 170 + silica sand	Ceramic tiles	1 day
20 or 25 kg/m²	UZIN NC 170 + silica sand	Ceramic tiles	1 day
20 or 25 kg/m²	UZIN NC 170 + silica sand	Natural stone	See data sheet

Flooring installation systems on UZIN NC 194 light weight screed



UZIN Turbolight®-System

Comparing properties of floor constructions

	Conventional cementitious screed	Raised floors	UZIN Turbolight®-System
Weight of floor covering	high	low	low
Compensation of undulations	no	yes	yes
Time to readiness for covering	long	short	short
High heat insulation properties	no	yes	yes
Installation effort	low	high	low
Slopes possible	conditional	no	yes
Build-up height	medium	medium	low
Sound absorption	high	low	medium

Practical application of the UZIN Turbolight®-System*

Application of the light weight screed
UZIN NC 194 Turbo

Laying the renovation fleece
UZIN RR 201

Application of the thin screed
UZIN NC 170 + 50 % silica sand
0.3 – 0.8 mm

Reference objects

Schloss Ellwangen (protected historic building)

Substrate	Concrete
Top covering:	Linoleum, 2.5 mm sheets
Area:	approx. 120 m²
Special features:	Low build-up height (2 – 7 cm)

District Court Neu-Ulm

Substrate:	OSB panels / concrete
Top covering:	Solid oak floorboards
Area:	approx. 500 m²
Special feature:	Restricted build-up height

* The detailed installation instructions can be retrieved at www.uzin.de

PRODUCT DATA SHEET

Virtually free from all shrinkage and deformation

Low-Shrink Rapid Cement

UZIN NC 198

Accelerated special cement for producing low-shrinkage, dimensionally stable screeds – for interior and exterior use

Description:

Accelerated, special cement-based binder for producing fast-drying rapid screeds. Due to its uniquely low shrinkage, the screed remains dimensionally stable with no dishing or sinking at edges, even in large areas. Crack inducing joints are often unnecessary. Compared with conventional screeds, the incidence of cracking is extremely low. Depending on the mix ratio and the quality of the screed sand added on site, it is possible to produce screeds in the strength categories CT–C25–F4, CT–C35–F5 or CT–C45–F6 in accordance with DIN EN 13 813. For interior and exterior use.

Suitable for:

- bonded screeds
- screeds on separating membranes
- screeds on insulation (floating screeds)
- heated screeds
- outdoor screeds for subsequent covering with tiles or natural stone
- mixing with regulation grade screed sands and water using normal mixing techniques by means of a screed pump on site
- normal wear use in domestic and commercial locations with all types of surface coverings
- as a UZIN system component in high-speed construction

Product Properties / Benefits:

Hydraulic setting special binder that sets virtually shrink- and stress-free. Thanks to its smooth consistency, it is especially easy to work.

Can be mixed and pumped using normal screed techniques. Accelerated setting and drying, therefore quickly ready for covering and a problem-solver in construction work to tight deadlines.

- Free from deformation and low-stress
- Large areas without joints
- Very easy to work
- High strength
- Quick to heat up
- Rapid drying
- Waterproof
- For all types of screed construction
- Low chromate content

Technical Data:

Packaging:	paper sack
Packsize:	25 kg
Shelf life:	min. 6 months
Mixing ratio binder / sand:	1 : 4, 1 : 5, 1 : 6 parts by weight
Required water quantity:	12 – 22 litres (according to sand moisture content)
Water / cement value:	max: 0.45
Colour:	grey
Consumption:	see "Applications Chart"
Working temperature:	+ 5 °C / 41 °F to 25 °C / 77 °F at floor level
Mixing time:	2 – 3 minutes
Working time:	60 – 90 minutes*
Set to foot traffic:	after approx. 12 hours*
Heat-drying:	3 days after installation
Ready for covering:	after approx. 24 hours*

* At 20 °C / 68 °F, 65 % relative humidity and normal screed thickness of 4.5 cm. See also "Drying".

UZIN | A Brand of UFLOOR Systems

D | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.com

GB | Uzin Ltd. | 4/5 Cholswell Court | Shippon | Abingdon | Oxon OX13 6HX | Telephone + 44 (0)12 35 53 41-06 | Telefax + 44 (0)12 35 53 41-07 | E-mail info@uzin.co.uk | Internet www.uzin.co.uk

UZIN NC 198

Substrate Preparation:

Test the substrate in accordance with applicable standards and notices and report any deficiencies. As far as is possible, any subsequent deflection in the substrate must be excluded.

Refer to the Product Data Sheets for the products used.

Bonded Screed:
Depending on condition brush, abrade, grind or shot-blast the substrate, remove loose material and thoroughly vacuum the surface. Dampen the concrete several times 1 or 2 days in advance. As a bonding agent, make a slurry using 4 parts UZIN NC 198, a little sand and 1 part UZIN PE 360 or codex Fliesengrund. Adjust the consistency by adding water. Brush the slurry onto the damp substrate using a hard brush or broom. Apply the screed mortar immediately "wet in wet".

Screed on Separating Membrane or Insulation:
Incorporate the separating or insulating layer without folds and with adequate overlap at the joints. Use materials with adequate dynamic rigidity and that lie flat. Ensure that covering of pipe-work, as well as the provision of edging-strips, bay-joints and movement-joints are carried out professionally.

Example of screed thicknesses based on DIN 18 560 for cement screeds corresponding to CT-C35-F5 for vertical loading ≤ 2 kN/m² (Table 1):

Bonded screed:	min. 2.5 cm
Screed on separating membrane:	min. 3.5 cm
Screed on insulation:	min. 4.0 cm
Screed covering heating pipes:	min. 4.0 cm

Application:

1. Mix UZIN NC 198 with washed screed sand 0/8 (A/B 8 in accordance with DIN 1045-2) and water using standard mixer- and delivery- equipment. Select a cement/sand mixing ratio according to the screed quality required, see "Applications Chart".
2. The required water quantity depends on the sand moisture content. Mortar consistency should be between 'wet earth' and 'plastic' – on no account make the mix too wet or thin.
3. Only mix as much mortar as can be applied within approx. 1 hour. At breaks in work, immediately empty and clean out the mixer, pump and hoses. Deliver, distribute, compact and smooth the screed very quickly. Take into account the rapid setting.
4. Check the residual moisture using the CM-Test equipment and according to the current BEB instructions. Test duration 10 mins. for a 50 g net sample weight.

Applications Chart:

Mixing ratio for a 200 litre pump with 300 kg of screed sand:			
Strength	**Ratio**	**Consumption / Mix**	**Consumption / m²**
CT-C25-F4	1 : 6	2 sacks (50 kg)	2.6 kg / m² / cm thickness
CT-C35-F5	1 : 5	2.5 sacks (62.5 kg)	3.2 kg / m² / cm thickness
CT-C45-F6	1 : 4	3 sacks (75 kg)	4.0 kg / m² / cm thickness

Ready for covering:

	CM-Test 24 hrs. after installation	Later measurement after 24 hrs.	Drying in days*
Ceramic tiles (large & small format)	≤ 3.5 CM-%	≤ 3.5 CM-%	approx. 1
Textile covering	≤ 3.0 CM-%	≤ 3.0 CM-%	approx. 2
Resilient covering, e.g. PVC, linoleum, rubber, PU	≤ 3.0 CM-%	≤ 2.5 CM-%	approx. 5
Wood Flooring, Cork, Laminate	....	≤ 2.0 CM-%	> 7

For wood flooring, cork or laminate coverings, always wait until 2.0 CM-%
* At 20 °C/68 °F, rel. humidity, forced ventilation and screed thickness of 40 – 55 mm on insulation or separating membrane.

Important Notes:

- Shelf life at least 6 months in original packaging when stored in dry conditions. Tightly reseal opened packaging and use the contents as quickly as possible.
- Heat-drying: when using as a heated screed, the heating programme can be started after 3 days. The flow-temperature of 25 °C / 77 °F should be maintained for 3 days, then the temperature is increased in steps of 10 °C / 50 °F / day up to the maximum flow-temperature (max. 55 °C / 131 °F). Maintain at the maximum temperature for at least 2 days then reduce in steps of 10 °C / 50 °F / day down to a flow-temperature of 25 °C / 77 °F. The first heating and cooling cycle must be carried out before the tope covering is installed. For this, the relevant protocol should be carried out by the heating system installer. A heating protocol for UZIN NC 198 can be supplied on request over the internet.
- In outdoor locations, prior to installation of tiling or natural stone, a waterproofing seal-coat of e.g. codex NC 210 or codex NC 220 should be applied.
- For surfaces exposed to constant freeze-thaw conditions, in exterior locations as well as for surfaces that will be used without a covering or protective coating, technical advise must be obtained.
- UZIN NC 198 is not suitable for use in under water locations.
- Optimum installation conditions are at 15 °C / 59 °F and relative humidity below 65 %. Low temperatures, high humidity and greater screed thickness will delay, whilst high temperatures will accelerate the setting, drying and readiness for covering. Protect freshly installed screeds from strong draughts, direct sunlight and sources of heat. Immediately that readiness for covering is reached, the covering should be installed so as to prevent new moisture ingress from high air humidity.
- To ensure high screed quality where there is uncertainty as to sand quality or moisture content, for the same amount of cement binder add a little less sand (approx. 4 shovels) and mixing water to the mixing container. Do not completely fill the mixer.
- Quality factors: drying and strength depend, amongst other things, on the water quantity used. With a lower water quantity, the screed mortar has a stiffer consistency but, with good compaction, a higher strength and faster drying. Too much water reduces the strength, delays drying, increases shrinkage and the risk of cracking.
- The following standards, regulations and publications are applicable and especially recommended:
  – DIN EN 13 813 "Screed mortars and screed compounds"
  – DIN 18 353 "Working with screeds"
  – DIN 18 195 "Structural damp-proofing"
  – DIN 18 560 "Screeds in the construction industry"
  – ZDB publication "Pipe-work, cables and cable ducting on new floor slabs"
  – "Commissioning of heated flooring constructions"

Protection of the Workplace and the Environment:

Irritant. Contains cement low in chromate acc. Directive 2003/53/EC. Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse thoroughly and imme diately with water. In the event of skin or eye irritation, consult a doctor. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured. Meets EMICODE EC 1 requirements (less than 200 micro-grams per cubic metre of Volatile Organic Compound emission) for maximum user safety and promoting healthier Indoor Air.

Disposal:

Dispose of empty packaging according to local regulations. Collect waste material, mix with water and allow to harden- then dispose as Construction Waste.

09.07 | 09.07 | 1.000 | leR

PRODUCT DATA SHEET

1-component STP woodfloor adhesive

UZIN MK 200

Solvent free and water free, high-elastic strength adhesive for woodfloor

Description:

Silane terminated 1-component adhesive with energy-elastic adhesive ridges and long working time for woodfloor, especially suited for moisture-sensitive wood.

Suitable for:

- Strip flooring
- On edge woodblock 16 – 22 mm
- Multi-layer parquet / ready-to-lay parquet
- Mosaic woodfloor
- Solid boards
- Exotic wood with tounge and groove

Suitable on:

- Substrates with sufficient strength
- Cement and calcium sulfate screeds, concrete
- Chipboard V100, dry screed elements
- Warm water under-floor heating systems
- All UZIN insulating underlays suitable for woodfloor with spigot and groove connection.

Product Properties / Benefits:

1-component, moisture-cured STP adhesive. Very easy to use with its excellent spread properties and long laying time. UZIN MK 200 cures quickly so that you can commence working very soon after laying. The product's good filling capacity and quick setting times support secure adhesion and allow for surfaces to be smoothed and completed in as little as 24 hours.

The new STP technology of UZIN MK 200 ideally combines the benefits of 1-component PUR and 1-component MSP technology. Energy-elastic and with the best-possible ridge hardness wood deformation and tears are kept to an absolute minimum. This results in technically perfectly laid surfaces with an optically sophisticated, homogenous appearance.

UZIN UTZ AG
Z-155.10-32
Emissionsgeprüftes Bauprodukt nach DIBt-Grundsätzen

GEV-EMICODE EC 1 R PLUS very low emission

Composition: Silane terminated prepolymers, mineral fillers, additives.

- Easy to apply
- Good ridge formation
- Long working time, ca. 30 – 40 min.
- Rapid grab
- High filling capacity
- Energy-elastic adhesive ridge
- Universal in use
- Residues on flooring can be easily removed
- Water-free, no swelling effect
- EMICODE EC 1 R PLUS / Very low emission PLUS
- Solvent-free, methoxysilane compound adhesive for woodfloor

Technical data:

Packaging:	metal drum
Package size:	16 kg
Shelf life:	min. 6 months
Colour:	beige
Consumption:	ca. 1000 – 1200 g / m²
Processing temperature:	min. 15 °C on floor
Open time:	none*
Laying time:	ca. 30 – 40 min.*
Set to traffic:	after approx. 12 hours*
Smoothing / sealing:	after approx. 24 hours*
Final strength:	after 5 – 7 days*

* at 20 °C and 65 % relative humidity.

UZIN | A Brand of Uzin Utz AG

D | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon +49 (0)731 4097-0 | Telefax +49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.com

GB | Uzin Ltd. | Unit 2, Mitchell Court | Central Park, Rugby, Warwickshire | CV23 0UY | Phone +44 (0)1788 530 080 | Fax +44 (0)1788 536 508 | E-mail info@uzin.co.uk | Internet www.uzin.co.uk

UZIN MK 200

Substrate preparation:

The substrate must be sound, level, dry, free from cracks and free of dust that may impair adhesion. Cement and calcium sulfate screeds must be abraded and vacuumed. Surfaces must be inspected in compliance with applicable standards and data sheets. Any deficiencies and concerns must be reported.

In the case of woodfloor, we recommend that special attention is given to a particularly thorough substrate inspection. Thoroughly brush, abrade, grind or shot blast any weakly bonded or unstable surface layers. Vacuum any loose parts and dust.

On substrates that comply with the standards and are suitable for woodfloor, primer can be omitted. Prime absorbent and porous surfaces with 1-Component PU Rapid Primer UZIN PE 414 Turbo (Attention drying time min. 2 hours), 2-Component Epoxy Primer- Sealer UZIN PE 460 / PE 480. Observe the drying time. Prime very uneven or rough surfaces with Universal Primer UZIN PE 360 and apply a minimum 2 mm thickness of woodfloor levelling compound UZIN NC 174 or rapid-drying leveling compound NC 172 BiTurbo:

Refer to the product data sheets for other products used.

Processing:

1. Before use, allow the contents of the containers to come to room temperature. After opening, peel the cover-film from the surface and, if necessary, remove any surface skin that has formed; do not mix in. Apply the adhesive evenly onto the subfloor using a notched trowel. Only apply as much adhesive as can be covered within 30 – 40 minutes.
2. Lay the woodfloor pieces into the adhesive bed with and press well down. Ensure full adhesive transfer to the underside of the woodfloor.
3. Note: Remove adhesive contamination cleaning clothes UZIN Clean-Box. Hardened adhesive can be removed from the woodfloor surface without leaving a residue.

Consumption data:

	Notch Size	Consumption
Mosaic woodfloor	B 3	ca. 1000 g/m²
For solid boards obtain technical advice		
All woodfloor types	B 11	ca. 1000 – 1200 g/m²

Important notes:

- Shelf life minimum 6 months in original packaging when stored in cool and dry conditions. Protect against frost. In opened containers, fully cover the adhesive with the film and use as quickly as possible.
- Optimum conditions are 18 – 25 °C and relative humidity max. 75 %. By compliance with standards for wood and air humidity and adequate acclimatisation of the woodfloor, can be sanded and sealed after 24 hours, e.g. with Pallmann woodfloor lacquers. (www.pallmann.net)
- Attention: The installation of woodfloor that is not sufficiently dry according to required standards can, in the event of a high increase in air humidity, lead to damage from swelling.
- The following standards, regulations and publications are applicable and recommended:
  - DIN 18 356 "Working with woodfloor"
  - Publication of the Adhesives Industry Association e.V. "Bonding of woodfloor"
  - Publication of the Central Association of German Construction Trades (ZDB) "Resilient and textile floor coverings and woodfloor on heated floor constructions".
  - TKB publication "Assessment and preparation of substrates for floor covering and woodfloor installation" 06 / 2004
  - BEB specification sheet "Assessment and preparation of substrates" 02 / 2002

Protection of the Workplace and the Environment:

Solvent-free parquet-adhesive containing methoxysilane. Non flammable. Avoid contact with skin and eyes. When curing, produces traces of methanol, therefore provide good ventilation during use. The use of protective gloves and safety-goggles is recommended. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Observe safety information on product label as well as safety data sheet. Once cured, has a neutral odour and presents no physiological or ecological risk. Does not contaminate the indoor air quality with either formaldehyde or other volatile compounds. EMICODE EC 1 R PLUS – very low emission PLUS.

Disposal:

Where possible, collect product residues and re-use. Do not empty into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residues are special waste, those with mixed and cured residues are Construction Waste. Therefore collect waste material and allow to harden, then dispose as Construction Waste.

06.11 | 06.11 | 0.000 | LD | leR

PRODUCT DATA SHEET

Can be used like solvent-neoprene adhesive

Solvent-free contact adhesive

UZIN WK 222

Water based neoprene adhesives for all types of constructional contact bonding

Applications:

Powerful contact adhesive with short open time and immediate load-bearing. For profiles, rods, skirting as well as all common types of floor covering on absorbent and non-absorbent substrates. UZIN WK 222 allows processing without solvent involvement. Handling, technical options and applications correspond to a solvent-based neoprene adhesive. For interior areas only.

Suitable for:

- PVC soft skirting, stair profiles, coved skirting from PVC, linoleum, rubber flooring, for contact bonding
- All textile floor coverings, even cumbersome needle felt coverings or woven carpets, for contact bonding on stairs in block format or with protruding edge as well as for the bonding/covering of cheeks and faces
- PVC/CV floor covering, linoleum, rubber, insulating underlays, amongst others, for contact bonding on staircases and risers
- Impact absorbing wall coverings and suitable textile or composite floor covering for contact bonding on all substrates common to building construction on walls and ceilings
- Repair bonding work, e.g. seam restorations, inspection cover bonding, and others
- Heavy duty for residential, commercial, industrial and sports facility applications
- Hot water underfloor heating
- Heavy duty for chair castors according to DIN EN 12 529
- Wet shampooing and spray extraction cleaning according to RAL 991 A2

Suitable on:

All plane, smooth, levelled or unlevelled substrates, e.g. on old floor coverings, finishes, metal substrates, screeds, concrete, levelling compounds, strongly bonded wall paint and wallpapers, plaster, wood, chip board, OSB boards, insulating underlays and the like as well as on water-resistant, polished neoprene dispersions or resin adhesive residues.

GEV-EMICODE EC 1 Very low emission

Product benefits / features:

Solvent-free processing with UZIN WK 222 not only meets the high requirements on occupational safety and environmental protection according to the hazardous substances ordinance for public invitations to tender in a legally conform manner. The very low-emission contact adhesive also takes the demands of private consumers on consumer protection in regard to a healthy indoor climate optimally into account.
Installers and users are thus given the opportunity for the first time to carry out economic contact bonding, even with cumbersome floor coverings, solvent-free and without restrictions based on occupational safety measures.

Composition: Modified polychloroprene polymers, thickeners, defoaming and conservation agents, water.

- Superb rolling and brushing properties
- Minimum application amounts with supplied application roller
- Can be applied also one day in advance
- Long contact bonding time
- High resistance to plasticisers
- Solvent-free
- EMICODE EC 1/very low emission

Technical Data:

Packaging:	plastic bucket
Pack sizes:	12 kg, 6 kg, 1 kg
Shelf life:	min. 12 months
Thermal stability:	up to 70 °C/158 °F, according to floor covering/substrate
Colour:	beige
Consumption, both sides:	300 – 450 g/m² total quantity*
Applicators:	UZIN foam roller (coarse) or brush
Processing temperature:	min. 10 °C
Open time:	20 – 40 minutes*
Contact bonding time generally:	min. 2 hours*, reduced to 90 min.* if adhesive was applied to one side on previous day
Ready for foot traffic / load-bearing:	immediately*
Sealing / filling joints:	after 12 hours*
Final strength:	after 2 days*

* At 20 °C/68 °F and 65 % relative humidity.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN WK 222

Substrate preparation:

The substrate must be sound, level, dry, free of cracks, clean and free of materials that could impair adhesion. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies.
Brush or grind off adhesion-reducing or weak layers. Thoroughly vacuum off loose material and dust. Apply primer, e.g. UZIN PE 360, UZIN PE 260, depending on the type and condition of the substrate, e.g. to dusty, coarse or strongly absorbent substrates. If necessary, prepare with repair or levelling compound, e.g. with UZIN NC 182, UZIN NC 888 or UZIN NC 170 LevelStar. Contact surfaces must be smooth and plane, as far as possible. Smooth, dense contact surfaces, e.g. plastic, metal, old flooring, coatings, and similar must be thoroughly ground out and cleaned and possibly degreased. Always allow primer and levelling compound to dry well all the way through. Refer to the product data sheets of companion products used.

Application:

1. Apply adhesive with yellow UZIN foam roller, coarse, and on the corners and edges use UZIN Silicone Brush (art. no. 65151) to apply adhesive uniformly thin onto the material to be bonded and the substrate.
   When applying the adhesive with the supplied 25 cm roller pre-spreading on a piece of chip board or the like is recommended in order to uniformly wet the roller.
2. Aerate both adhesive layers at least until they are almost non-tacky when touched. The covering / profile side may alternatively be coated the day before. The second adhesive side is then aerated only until the surface is "slightly finger-dry".
3. Put down the covering / profile immediately or within the contact adhesion time, ensure correct fit and apply full area pressure, rub on or / and tap on. Subsequent correction is not possible. After 10 – 20 min. rub on again with force, especially seams and edges.
4. Unfavourable climatic conditions increase the open time significantly more than with solvent-based adhesives. To be able to still continue working at a good speed more air circulation often helps and can be easily achieved, e.g. by opening a door, using a small electric heater blower or even a hot welding gun.
5. Remove adhesive residues while fresh with lukewarm water. The dried on adhesive film can also be rubbed off from many surfaces. As an alternative, us the cleaning cloths of the UZIN Clean-Box.

Consumption information:

Substrate backing	Application Tool	Consumption per contact area*
Smooth, lightly reliefed, e.g. PVC coverings, rubber flooring, CV coverings, and others	UZIN foam roller (coarse) or silicone brush	150 – 200 g/m²
Reliefed, e.g. coarse needle felt, linoleum, textile coverings, felt backing coverings, impact-absorbing wallor coverings, and others.	UZIN foam roller (coarse) silicone brush	250 – 350 g/m²
Substrate		
Depending on the the surface characteristics and absorbency	UZIN foam roller (coarse) or silicone brush	150 – 200 g/m²

* At 20 °C / 68 °F and 65 % relative humidity with room-temperature adhesive containers.

Important notes:

- Shelf life at least 12 months in original packaging when stored in moderately cool conditions. Protect from frost. Tightly re-seal opened containers and use the contents as quickly as possible. Allow adhesive to reach room temperature before processing.
- Optimum processing at 20 – 25 °C / 68 – 77 °F room temperature, min. 15 °C floor temperature and relative humidity below 65 %.
- Low temperatures and high humidity will delay whilst high temperatures and low humidity will accelerate the partial drying, setting and contact bonding times.
- Moist substrates may cause secondary emissions and odours. Therefore, install only on well dried substrates and make sure the levelling compound has dried through if substrates have been levelled.
- During work breaks store application tools submerged in adhesive container or pack roller in foil to prevent drying.
- Drying can be accelerated during processing with the help of a hot welding gun and the pliability of the covering can be improved, e.g. to reduce tension with cumbersome coverings / profiles (e.g. shaped staircases, Quickstep® edge, etc.) or edge strips with a small radius.
- Follow the generally acknowledged rules of the trade and of technology for the installation of floor covering as well as the respective applicable standards (e.g. EN, DIN, VOB, OE, SIA, etc.). The following standards and bulletins represent supporting information and are recommended for special attention.
  – DIN 18 365 "Working with floor coverings"
  – TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  – BEB publication "Assessment and preparation of substrates"
  – TKB publication "Bonding of luxury vinyl tiles"
  – TKB publication "Bonding of elastomer floor coverings"
  – TKB publication "Bonding of linoleum floor coverings"

Protection of the workplace and the environment:

Solvent-free. Non-flammable. Requires no special protection or precautions in general use. Use of barrier cream and ventilation of the work area are recommended.

EMICODE EC 1 – "very low emission". Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC). When fully dried, has a neutral odour and presents no physiological or ecological risk.

Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste.

05.12 | 05.12 | msl

PRODUCT DATA SHEET

dries in only 45 mins.

Super-Fast Primer

UZIN PE 280

Dispersion primer with carbon technology for smooth and dense surfaces

Description:

Very low emission and film-forming dispersion primer for use over residues of adhesives and levelling compounds and as a bonding agent on dense and smooth surfaces or directly onto epoxy- and PU- based primers. For use prior to application of levelling compounds on cement- and calcium sulphate-screeds for floor covering and wood flooring installations.

Suitable for/on:

- existing surfaces in need of refurbishment, e.g. on well bonded, waterproof residues of adhesives and levelling compounds, e.g. synthetic resin, neoprene, bitumen or dispersion adhesive residues
- dense and smooth surfaces such as, e.g. on soundly fixed ceramic and natural stone tiles, reworked stone, terrazzo, water-resistant coatings, epoxy coatings or metal surfaces
- epoxy primers such as, e.g. UZIN PE 460 or on PU primers such as, e.g. UZIN PE 414 Turbo
- mastic asphalt that is old or un-gritted
- magnesia- or stone-wood- screeds
- heavy wear areas in domestic, commercial and industrial locations
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529

LEED contributed product

GEV-EMICODE EC 1 PLUS very low emission

Product Properties/Benefits:

Dispersion primer/bonding-agent that produces a rough, well-keyed surface due to the special carbon technology. The Super-Fast primer UZIN PE 280 is impressive for its exceptional speed and ideal adhesion to the substrate.

Composition: Modified styrol-acrylate copolymers, wetting and de-foaming agents, preservatives, carbon fibres, synthetic and mineral aggregates, water.

- Ready to use
- Film-forming
- Ideal bonding agent on dense surfaces
- Good adhesion
- Paste consistency, therefore also suitable for vertical surfaces
- High-speed construction product
- Solvent-free
- EMICODE EC 1 PLUS/Very low emission PLUS

Technical Data:

Packaging:	oblong plastic bucket
Packsize:	5 kg, 12 kg
Shelf life:	min. 12 months
Colour wet / dry:	ochre
Consumption:	70 – 150 g / m²
Working temperature:	min. 10 °C at floor level
Drying time, ready for coating after:	45 mins. to 4 hrs.

* At 20 °C and 65 % relative humidity. See also "Applications Chart".

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN PE 280

Substrate Preparation:

The substrate must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease) that would impair adhesion. Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Remove any soft or weakly bonded areas, e.g. separating agents, loose residues of adhesives, levelling compounds, coverings or coatings, etc., by brushing, abrading, grinding or shot-blasting. Intensively clean any used, smooth, non-absorbent surfaces with UZIN RG 194 and water – when dry, abrade to a matt finish. Thoroughly vacuum off any loose material and dust. Test that old, well-bonded residues of adhesives and levelling compounds are waterproof. If not waterproof (water test: adhesive starts to dissolve when exposed to water), apply UZIN PE 460 or UZIN PE 414 Turbo.

Always allow primers to dry thoroughly. Refer to the Product Data Sheets for other products used.

Application:

1. Before, use, allow containers to come to room temperature and, if necessary, stir well.
2. Apply a thin, even coat over the whole surface area using a short-pile lambswool roller or the UZIN nylon fibre roller.
3. Clean tools immediately after use in water.

Applications Chart:

Allow to dry to an ochre-coloured film that will accept foot traffic.

Substrate	Dilution	Consumption	Drying Time
Well-bonded, waterproof residues of adhesives and levelling compounds	neat	100 – 150 g / m²	approx. 45 min*
Dense and smooth substrates, e.g. ceramic and natural stone tiles, reworked stone, terrazzo, water-resistant coatings, epoxy coatings, metal surfaces, other dense substrates	neat	70 – 100 g / m²	approx. 45 min*
UZIN PE 460 or UZIN PE 414 Turbo	neat	70 – 100 g / m²	approx. 45 min*
Mastic asphalt that is old or un-gritted	neat	100 – 120 g / m²	approx. 45 min*
Magnesia- and stone-wood screeds	neat	100 – 120 g / m²	approx. 4 hours*
Mixed substrates with some absorbent areas	max. 20 % (to 1 kg UZIN PE 280, 0.2 litres of water)	80 – 120 g / m²	approx. 45 min*

* At 20 °C and 65 % relative humidity.

Important Notes:

- Shelf life minimum 12 months in original container when stored in relatively cool conditions. Protect from frost. Carefully and tightly re-seal opened containers and use the contents as quickly as possible. Material diluted with water must be used within a few days.
- Optimum application conditions are 15 – 25 °C, floor temperature above 15 °C and rel. humidity below 65 %. Low temperatures and high humidity extend, whilst high temperatures and low humidity shorten the drying time.
- When applying more than one coat of levelling compound, allow each to dry completely, prime with UZIN PE 360 and, when this has dried, apply the next coat.
- When using UZIN PE 280 as a bonding agent on totally dense surfaces, the maximum thickness of levelling compound is limited to 10 mm.
- When applying levelling compounds at greater than 10 mm thickness, a gritted epoxy-resin primer such as UZIN PE 460 is required.
- On mastic asphalt and magnesia screeds, the thickness of the levelling compound must not exceed 3 mm.
- When priming over water-soluble adhesive residues (e.g. sulphite adhesives) or fixatives, use gritted UZIN PE 460 or gritted UZIN PE 414 Turbo
- The following standards and notices are applicable and especially recommended:
  – DIN 18 365 "Working with floor coverings"
  – DIN 18 356 "Working with wood flooring and wood-blocks"
  – TKB publication "Assessment and preparation of substrates for floor coverings and wood flooring"
  – BEB publication "Assessment and preparation of substrates"

Protection of the Workplace and the Environment:

Solvent-free. Non-flammable. Requires no special protection or precautions in general use. Use of barrier cream and ventilation of the work area are recommended. EMICODE EC 1 PLUS – very low emission PLUS. Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC). When fully dried, has a neutral odour and presents no physiological or ecological risk. Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste.

05.12 | 05.12 | msl

PRODUCT DATA SHEET

Exterior Surfacer

codex NC 395

Free-flowing cement flooring compound for thickness from 3 – 40 mm

Description:

For preparation work on gradients, for smoothing, levelling, ramping and improving floor surfaces in interior and exterior locations.

Suitable for / on:

- producing flat, sound, prepared surfaces, including with slight gradients, for ceramic tiling, natural and artificial stone, floor coverings, etc.
- cement screeds, concrete slabs, terrazzo, stone and ceramics
- existing floors with well-bonded residues of adhesives and levelling compounds
- balconies, terraces, access ways, etc. as well as in damp or wet areas with, if necessary a top seal-coat
- underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529
- heavy wear domestic and commercial locations

Product Properties / Benefits:

Plasticised dry powder mortar with special medium grade aggregate. When mixed with water, produces a free-flowing, plasticised, hydraulic-setting smoothing compound that is also for exterior use.

CE

UZIN UTZ AG
Dieselstraße 3
D-89079 Ulm
06

EN 13 813 CT–C25–F5
Cementious levelling compound for substrates in interior and exterior locations

Fire resistance	A 1$_{fl}$
Compressive strength	C 25
Tensile strength	F 5

C25
DIN EN 13 813
F5

Composition: Special cements, mineral aggregates, poly-vinylacetate copolymers, flow agents and additives.

- For thickness from 3 – 40 mm
- Pumpable and self-smoothing
- For gradients up to approx. 4 %
- Rapid setting and drying
- Very low stress
- High compressive and tensile strength
- Waterproof and frost-resistant
- Good absorbency
- Low chromate content

Technical Data:

Packaging:	paper sack
Packsize:	25 kg
Shelf life:	min. 6 months
Required water quantity:	4.0 – 4.5 litres per 25 kg sack
Colour:	grey
Consumption:	approx. 1.8 kg / m² per mm thickness
Working temperature:	min. 5 °C / 41 °F at floor level
Working time:	approx. 30 minutes*
Set to foot traffic:	after 2 – 3 hours*
Ready for covering:	after approx. 24 hours*

* At 20 °C / 68 °F and 65 % rel. humidity at 10 mm thickness.

codex | A Brand of UFLOOR Systems

D | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@codex-x.com | Internet www.codex-x.com

GB | Uzin Ltd. | 4/5 Cholswell Court | Shippon | Abingdon | Oxon OX13 6HX | Telephone + 44 (0)12 35 53 41-06 | Telefax + 44 (0)12 35 53 41-07 | E-mail info@codex-x.co.uk | Internet www.codex-x.co.uk

codex NC 395

Subfloor Preparation:

The substrate must be dry, load-bearing, free from cracks and free from materials that would impair adhesion. Any prospect of surface distortion must be excluded as far as is possible.

Thicker, bonded levelling coats require a very sound and well-keyed surface. Brush, abrade, grind or shot-blast to remove any soft or weakly bonded surface areas, remove loose material and thoroughly vacuum the surface.

Prime interior and exterior, absorbent, cement-based substrates with Primer codex Fliesengrund. On non-absorbent, dense or very smooth surfaces, prime with codex PE 370.

As a sealer-primer (e.g. on substrates direct to ground or those with high residual moisture content), apply two coats of 2-Component Epoxy Primer-Sealer UZIN PE 460 and grit the second coat. Always allow primers to dry thoroughly. Refer to the Product Data Sheets for the products used.

Application:

1. Put 4.0 – 4.5 litres of cold, clean water into a clean container. Sprinkle in the sack contents (25 kg) whilst stirring vigorously and blend to a free-flowing, lump-free mix. Use mixing equipment fitted with a levelling compound mixing paddle. Do not mix too thin.
2. Pour out the mix onto the surface and distribute evenly using a smoothing trowel or the screed rake. Where possible, spread to the desired thickness in one operation. If necessary, apply to gradients using pre-fixed guides.
3. Drying time at 20 °C/68 °F and 65 % rel. humidity, 1 day per 10 mm thickness. Sanding off with 40-60 grade sandpaper improves surface quality and absorbency.

Consumption:

Thickness	Consumption	Coverage per 25 kg sack
3 mm	approx. 5.5 kg / m²	4 – 5 m²
5 mm	approx. 9 kg / m²	2 – 3 m²
10 mm	approx. 18 kg / m²	1 – 2 m²
15 mm	approx. 27 kg / m²	less than 1 m²

Important Notes:

- When using in underwater areas, obtain technical advice.
- Shelf life min. 6 months in original packaging when stored in dry conditions. Tightly re-seal opened packaging and use the contents as quickly as possible.
- Optimum conditions are 15 – 25 °C/59 – 77 °F and relative humidity below 75 %. Low temperatures, high humidity and greater thickness delay, whilst high temperatures accelerate the setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- Fit adequately wide expansion strips to adjoining structures.
- Pumpable with continuous operation mixer-pumps, such as type PFT-T 2 E.
- For thicknesses above 20 mm, the mix can be extended up to 40 % by weight with UZIN sand aggregate or screed sand (grade 0 – 4 mm or 0 – 8 mm).
- The grade of the screed sand affects the strength of the compound. When building up coats, allow the first coat to dry for 24 hours, prime with codex Fliesengrund and apply the following coat after 3 – 4 hours.
- Protect freshly prepared surfaces from draughts, direct sunlight and influences of heat or wetness (rain).
- The following standards are applicable and especially recommended:
  – DIN 18 352 "Working with large and small format tiling"
  – DIN 18 157 "Ceramic tile installation using the thin-bed method"
  – ZDB publications:
    • "Bonded damp-proofing"
    • "Coverings on cement screeds – heated"
    • "Coverings on cement screeds – unheated"
    • "Coverings on calcium sulphate screeds"
    • "Exterior coverings"
    • "Interface co-ordination"
  – BEB publications:
    • "Assessment and preparation of substrates"

Protection of the Workplace and the Environment:

Irritant. Contains cement low in chromate acc. Directive 2003/53/EC. Cement produces strong alkaline on reaction with water. Avoid contact with eyes and skin. In the event of contact, rinse thoroughly and immediately with water. In the event of skin or eye irritation, consult a doctor. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured.

Disposal:

Where possible, collect product residues and re-use. Do not allow to get into drains, sewers or ground. Empty paper packaging is recyclable. Collect waste product, mix with water, allow to harden, then dispose as Construction Waste.

03.07 | 03.07 | 0.000 | Mar

PRODUCT DATA SHEET

Extended Application Field

2-Component PU Adhesive

UZIN KR 430 NEW

Flexible polyurethane adhesive for heavy-duty floor coverings

Description:

UZIN KR 430 NEW is a 2-component polyurethane adhesive with smooth paste-consistency for rubber and PVC floor coverings on dry substrates. The adhesive is especially suitable for areas with heavy use. For interior use.

As a special adhesive:

- for PVC design floor coverings
- for PVC and CV floor coverings in tiles
- for rubber in tiles up to 10 mm thickness (e.g. norament®)
- for rubber granulate coverings or underlays (e.g. Regupol®)
- for linoleum in tiles up to 4 mm thickness
- for artificial grass, outdoor or sports floor coverings
- in combination with UZIN RR 185 and industrial floor coverings (e.g. Gerflor GTI®)

- on levelled, absorbent or non-absorbent substrates
- on flexible or defomable substrates (e.g. underlays, wood, metal)
- on warm water underfloor heating system
- for exposure to castor wheels in accordance with DIN EN 12 529
- for heavy wear in residential, commercial and industrial locations
- for wet shampooing and spray extraction cleaning according to RAL 991 A2

GEV-EMICODE EC 1 PLUS very low emission

Product benefits / properties:

UZIN KR 430 NEW offers a wide application field and extremely high final strength and hardeness.

Composition: Polyurethane made from polyol and polyisocyanate.

- Odourless during and after application
- No shrinkage
- Flexible yet hard
- High resistance to heat and cold
- Solvent-free
- EMICODE EC 1 R PLUS / Very low emission

Caractéristiques techniques:

Packaging:	plastic combi-can
Packsizes:	3 kg, 8 kg
Shelf life:	min. 12 months
Colour wet / dry:	transparetn / brownish
Mixing ratio:	A : B = 5 : 1 parts by weight
Consumption:	300 – 1300 g/m²
Working temperature:	min. 15 °C / 59 °F at floor level
Pot life:	20 – 30 minutes*
Working time:	up to 40 minutes*
Set to traffic:	after 12 – 24 hours*
Final strength:	after 3 – 5 days*
Sealing / filling joints:	after 12 – 24 hours*

*At 20 °C and 65 % relative humidity, depending on the type of floor covering and the absorbency of the substrate.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | DE-89079 Ulm | Telefon +49 (0)731 4097-0 | Telefax +49 (0)731 4097-110 | E-Mail info@uzin.com | Internet www.uzin.com

GB | Uzin Ltd. | Unit 2, Mitchell Court | Central Park, Rugby, Warwickshire | CV23 0UY | Phone +44 (0)1788 530 080 | Fax +44 (0)1788 536 508 | E-mail info@uzin.co.uk | Internet www.uzin.co.uk

UZIN KR 430 NEW

Substrate Preparation:

The subfloor must be level, sound, load bearing, dry, free from cracks, clean and free from material which would impair adhesion (e.g. dirt, oil, grease). The suface must be vacuumed, primed and levelled thoroughly with a high-tensile cementitious compound. Suitable primers and levelling compounds can be found in the UZIN product guide. On flexible substrates, such as mastic asphalt or underlays, smooth as required with the 2-component PU-levelling compound UZIN KR 410 and adhere the covering within 24 to 48 hours. Degrease and abrade dense and smooth substrates and prime if necessary. The substrate must be tested in accordance with applicable standards and bulletins and any deficiencies must be reported. Always allow primer and levelling compound to dry well all the way through.

Refer to the Product Data Sheets for other products used.

Application:

1. Before use, allow combi-can to come to room temperature. Mix resin and hardener as described on the bucket. Ensure thorough mixing including at the walls and floor of the container. Adhesive not well mixed will not harden.
2. Apply adhesive uniformly with suitable notched trowel onto the substrate and allow to dry partially according to the application amount, the indoor climate, the absorbency of the substrate and the type of floor covering. Do not apply more adhesive than can be laid with good wetting of the back of the covering within the working time. The covering must not "float". Apply the adhesive quickly, observe the pot life and avoid leaving pressure-marks.
3. Lay in the covering, rub down and, after approx. 2 hours, roll.
4. Remove residues while fresh with clothes of UZIN Clean-Box. Hardened adhesive can only be removed mechanically.

Consommation:

Covering type / Backing type	Notch Size	Consumption*
smooth/sanded, e.g. norament® with sanded backing	A 2 / A 5	250 – 350 g/m²
coarse/textured, e.g. linoleum or sports flooring	B 1 / B 2	400 – 600 g/m²

* AT 20 °C and 65 % relative humidity, with tempered adhesive buckets on UZIN NC 170 LevelStar.

Important Notes:

- Shelf life minimum 12 months in original packaging when stored in relatively cool conditions. Frost resistant up to – 25 °C.
- Optimum work conditions are 18 – 25 °C, floor temperature above 15 °C and relative air humidity below 75 %. Low temperatures and low air humidity lengthen, whilst high temperatures and high air humidity shorten the drying time.
- Do not mix part quantities!
- Before bonding floor coverings must be adequately acclimatised and free from tension and must be adapted to the common indoor climate for future use.
- In connection with UZIN PUR-accelerator the hardening of the adhesive can be speeded up, e.g with worse climatic conditions and earlier demand of load.
- UZIN KR 430 NEW is suitable for use under goods handling trucks with very heavy loading up to 50 kp/cm².
- The following standards, regulations and publications are applicable and especially recommended:
  – DIN 18 365 "Working with floor coverings"
  – TKB specification sheet "Assessment and preparation of surfaces for floor covering and wood floor covering"
  – BEB specification sheet "Assessment and preparation of surfaces"
  – TKB specification sheet "Adhesion of elastomeric floor coverings"

Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Comp. A: Requires no special protection or precautions in general use. Comp. B: Contains diphenylmethane-diisocyanate (MDI). Harmful on inhalation. Irritating to eyes, respiratory system and skin. There is limited evidence of a carcinogenic effect for respirable vapours of MDI. May cause sensitisation by inhalation and skin contact. Use barrier cream, protective gloves and safety-goggles. Provide good ventilation. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Observe safety information on product label as well as safety data sheet. Once cured, presents no physiological or ecological risk. Does not contaminate the indoor air quality with either formaldehyde or other volatile compounds.

EMICODE EC 1 R PLUS – very low emission.

Disposal:

Where possible, collect product residues and re-use. Do not empty into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Containers with liquid residues are special waste, those with mixed and cured residues are Construction Waste. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.

PRODUCT DATA SHEET

With UZIN Epoxy Accelerator, dry in only 3 ½ hours !

2-Component Epoxy Primer-Sealer

UZIN PE 460 NEW

Epoxy primer for damp or weak surfaces

Description:

Low odour, epoxy resin primer as a barrier against moisture up to 5 CM-% on cement screeds and concrete. An alternative damp-proofing on concrete or cement screeds in direct contact with ground moisture or on new concrete slabs with high residual moisture – also for priming or surface strengthening of all standard building industry substrates, both absorbent and non-absorbent. Also for use as an epoxy mortar when combined with UZIN Special Fillers XS. For interior and exterior use.

Suitable for:

- damp-proofing against high residual moisture up to 5 CM-% or 6% by weight on unheated cement screeds and concrete
- surface hardening on weak, porous or cracked substrates
- priming of existing surfaces that are dense or open-pored
- producing epoxy repair mortars or epoxy screeds
- heavy duty use in domestic, commercial and industrial locations
- exposure to castor wheels in accordance with DIN EN 12 529

GEV-EMICODE EC 1 very low emission

0736
Bestandteil des Systems „Unterster Decksbelag"

Binder: Polyamine cured epoxy resin.

- Around 20 % faster cure
- Reduced odour during application
- High barrier-effect against moisture
- Improved surface wetting properties
- Water- and frost-resistant
- System component in PAH decontamination
- Solvent-free
- EMICODE EC 1 R / Very low emission

Technical Data:

Packaging:	metal combi-can		
Packsize (A / B):	5 kg, 10 kg		
Shelf life:	min. 12 months		
Colour (A / B) wet / dry:	transparent / yellowish		
Hazard factors:	see „Protection of the Workplace and the Environment"		
Mixing ratio:	A : B = 1.9 : 1 parts by weight		
Pot life:	25 – 35 minutes*		
Consumption:	200 – 600 g / m² per coat		
Working temperature:	min. 10 °C at floor level		
Foot traffic / further coating:			
temperature:	10 °C / 50 °F	20 °C / 68 °F	30 °C / 86 °F
time:	24 hrs.	8 hrs.	5 hrs.
Final strength:	after 3 – 5 days*		

*At 20 °C / 68 °F and 65 % relative humidity.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN PE 460 NEW

Areas of Use:

Suitable for / on:

- providing a barrier against high residual moisture in non-heated, cement-based substrates such as e.g. cement screeds, concrete slabs or bonded constructions in direct contact with ground moisture up to 5 CM-% and 6 % by weight.
- surface strengthening or priming of dry, mineral surfaces, including weak substrates. For cement-, calcium sulphate-, magnesia-, and stone-wood- screeds, concrete, chipboard V100, OSB boards and pre-finished screed sections.
- priming of ceramics and natural stone, reconstituted stone, terrazzo, metal (obtain technical advice), coatings and seal-coats (sanded until matt).
- priming of substrates with well bonded residues of bitumen-based or water-soluble adhesives, paints or levelling compounds (including spent sulphite adhesive residues).
- priming prior to application of epoxy-, PU- or MSP-adhesives
- impregnation and deeply penetrating surface strengthening of porous surfaces when diluted with UZIN VE 124
- producing a reaction resin mortar, when mixed with UZIN XS, for filling holes and surface damage. Prime the surfaces and apply the mixed epoxy mortar wet-in-wet onto the primer.

Product Properties / Benefits:

UZIN PE 460 has been proven over many years as a reliable barrier-primer in new and old building work. Thanks to its new raw material formulation, the epoxy primer is very low emission and is certified in accordance with EMICODE EC 1 R. Under normal conditions, it hardens around 20 % faster and functions reliably and permanently even at low temperatures.

Together with the correct UZIN accessories, all relevant tools of the trade are available to the user to ensure a reliable and professional installation.

Substrate Preparation:

The substrate must be load-bearing, have adequate tensile and compressive strength, be clean and free from materials (dirt, oil, grease) that would impair adhesion. Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Remove any soft or weakly bonded layers, e.g. separating agents, loose residues of adhesive, levelling compound, coatings, sealers, care products or paint, etc. by brushing, abrading, grinding or shot-blasting. Other substrate surfaces should be mechanically keyed. For very smooth or extremely hard surfaces, e.g. power-floated concrete or hard magnesia screeds, shot-blasting is required. Dense, smooth and metal surfaces should be degreased and abraded. On metal surfaces, pre-test for adhesion strength. Thoroughly vacuum off all loose material and dust. Always allow primers to dry completely. Refer to the Product Data Sheets for other products used.

UZIN PE 460 NEW

Application:

1. Before use, allow the combi-cans to come to room temperature. Punch several times through the plastic plug and the floor of the upper container (hardener B). Allow the hardener to drain completely into the lower container (resin A). Remove the empty upper container and thoroughly blend the components with the UZIN spiral mixer (A). Decant the mixed material into an oval bucket and mix briefly once again.
2. Immediately apply an even coat of the primer onto the substrate with the UZIN Nylon Fibre Roller (B). On smooth surfaces, it can be spread with a B2 notched trowel and then evenly rolled out using the fibre roller. Ensure a fully sealed coat. Allow for the limited working time.
3. When the first coat is dry to accept foot traffic, but within 48 hours, apply the second coat using cross-strokes. To visually differentiate between the coats, mix approx. 1 % of UZIN Epoxy Colourant into the second coat (C). Then fully scatter-coat with UZIN Fine Sand 0.8 (approx. 3 kg / m²) to form a dry excess (D).
4. Clean tools immediately after use with UZIN VE 124. Hardened material can only be removed by mechanical means. When hardened, sweep off loose sand and vacuum.

Application Chart:

Consumption according to surface condition and resin temperature, application with the UZIN Nylon Fibre Roller:

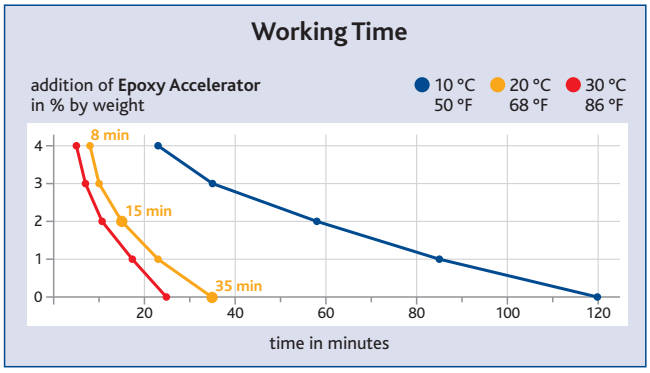
Substrate	Consumption
Rough, shot-blasted or ground surfaces	300 – 600 g/m²*
Lightly shot-blasted surfaces, application with B2 notched trowel	approx. 500 g/m²*
Sanded surfaces, old adhesive residues	250 – 350 g/m²*
Smooth, dense and non-absorbent surfaces	200 – 250 g/m²*
Barrier-coat on a new, trowelled and smoothed cement screed	approx. 350 g/m²/1st coat* approx. 250 g/m²/2nd coat*

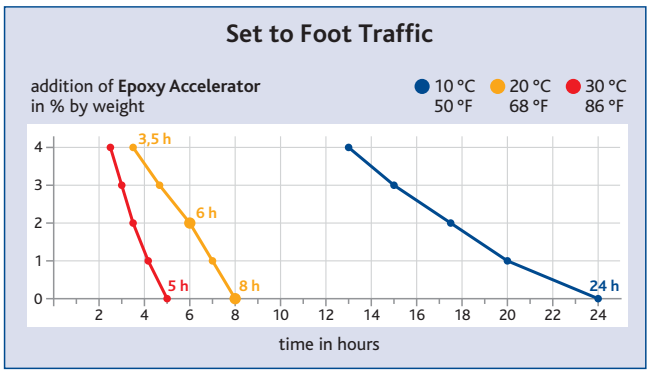
*At 20 °C/68 °F and 65 % relative humidity and acclimatised containers.
At lower temperatures, material consumption is increased.

Practical Note:

To accelerate the setting process, up to max. 4 % of UZIN Epoxy Accelerator can be added to the primer. Application of the following coat can then be carried out earlier than without the accelerator, ideally the same day.

In the following diagrams, the working time and setting time are shown depending on accelerator quantity and temperature:





An addition of 2 % allows two coats to be applied within one day.

Caution: at 4 % accelerator quantity, the working time is drastically reduced. Only use this quantity in conjunction with adequate experience and lower temperatures!

UZIN PE 460 NEW

Important Notes:

- Shelf life min. 12 months in original containers when stored in relatively cool conditions.
- Optimum application conditions are 15 – 20 °C/59 – 68, floor and container temperature above 15 °C/59 °F and relative humidity under 65 %. Low temperatures will extend and high temperatures will shorten the working and setting times.
- **Caution:** epoxy materials can become extremely hot in the container after mixing. Therefore, apply immediately, do not leave unattended after mixing and remove the container to outdoors to allow residue to react.
- As a damp-proofing barrier up to 5 CM-% under mineral levelling compounds, a two-coat application is required. Does not replace damp-proofing in accordance with DIN 18 195, Part 4.
- For improved penetration in porous substrates, UZIN PE 460 can be thinned with up to 10 % UZIN VE 124. Diluted material is not suitable for use as a barrier-coat.
- A surface barrier-coat cannot be applied on moisture-sensitive substrates or old cement screeds with levelling compound residues and in direct contact with ground moisture.
- For barrier-coats on cement screeds or concrete slabs with incorporated underfloor heating or concrete core cooling, obtain technical advice.
- For coating over old mastic asphalt or mixed surfaces with different old finishes, the use of the reaction resin product UZIN KR 410 in combination with UZIN Fine Sand 0.8 is also recommended.
- For direct adhesion of wood flooring onto ungritted UZIN PE 460, the adhesives UZIN MK 92 S, UZIN MK 95 or UZIN MK 100 must be used within 48 hours.
- For use in PAH decontamination, please refer to the detailed system recommendations and notes on the internet (www.uzin.de).
- For coating on metal, prepare a test area and obtain technical advice.
- Do not mix part quantities!
- UZIN PE 460 is a component of the system "Lower Deck Covering" consisting of UZIN NC 170, UZIN PE 520, UZIN PE 460 and UZIN Fine Sand 0.8. This system is accredited as a product for marine use by the See-Berufsgenossenschaft (maritime insurance association) Hamburg, Modules B and D. Certificate copes are available on request. The approved thickness is 8 mm. USCG-No. Module B 164.106/EC0736/113.069.
- The following standards and publications are applicable and especially recommended:
  - DIN 18 365 "Working with floor coverings"
  - DIN 18 356 "Working with parquet and wood-blocks"
  - DIN 18 352 "Working with tiling and natural stone"
  - TKB publication "Assessment and preparation of substrates for floor covering and parquet installation"
  - BEB publication "Assessment and preparation of substrates"
  - Publication by the Federal Association for Surface Heating and Cooling "Interface co-ordination for heated floor constructions"

Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Comp. A: Contains epoxy resin/Xi: Irritant. Comp. B: Contains amine hardener/C: Corrosive. Both components: May cause irritations or burns to eyes, skin or respiratory system. May cause sensitisation by skin contact. Use barrier cream, protective gloves and safety-goggles. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In liquid form, "N/ hazardous to the environment", therefore do not allow into drains, water courses or landfill.

Observe safety information on product label as well as safety data sheet. Once cured, has a neutral odour and presents no physiological or ecological risk. Does not contaminate the indoor air quality with either formaldehyde or other volatile compounds. EMICODE EC 1 R – very low emission.

Disposal:

Where possible, collect product residues and re-use. Do not empty into drains, sewers or ground. Empty, scraped and drip-free metal containers are recyclable. Liquid residues as well as containers with liquid residues are special waste, those with mixed and cured residues are Construction Waste. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.

05.12 | 05.12 | msl

PRODUCT DATA SHEET

2-Component Epoxy Moisture Barrier

UZIN PE 480

Epoxy resin primer as a moisture barrier on very damp substrates

Description:

2-component epoxy resin as a barrier- and primer- coat on absorbent and non-absorbent substrates with very high residual moisture prior to floor covering, wood flooring and tiling work. For interior and exterior use.

All-round suitability for / on:

- as a **barrier primer** on cement-based, moisture-resistant substrates, e.g. roughened, very compacted or smooth cement screeds, concrete, etc. without limitation to a maximum residual moisture value
- as a **case-hardening primer** on mineral, absorbent substrates, e.g. cement-, calcium sulphate-, magnesia- and stonewood- screeds, concrete, etc.
- thinned with UZIN VE 124, as an **impregnation treatment** with especially good penetration and strengthening effect on porous or soft mineral substrates (see "Application")
- as a **bonding agent** on abraded ceramics, stone and terrazzo surfaces, on existing floor finishes with well bonded residues of adhesives, smoothing compounds, paints or coatings, even on water-soluble adhesive residues, e.g. fixatives or sulphite adhesives, etc.
- as a **resin binder** mixed with Special Coarse Fillers UZIN XS (ratio 1 : 10 parts by weight) for producing a reaction resin mortar for subfloor repairs
- warm water underfloor heating and for exposure to castor wheels in accordance with DIN EN 12 529

UZIN PE 480 can be used as a moisture barrier in all situations where UZIN PE 460, suitable for inadequately dry, cement-based subfloors up to 6 % by weight, is no longer sufficient.

Note: Excessive moisture in moisture-sensitive subfloors, e.g. calcium sulphate- or magnesia- screeds, wood, etc. must not be barrier-coated.

Caution: In all cases where the barrier-coat will be covered with a levelling compound or mortar product, the UZIN PE 480 must be properly gritted with UZIN Fine Quartz Sand 0.8.

LEED contributed product

Product Properties / Benefits:

A pure, high-quality, 2-component epoxy resin produced by mixing Resin A with Hardener B. Medium viscosity, applied with the UZIN Nylon Fibre Roller and rapid setting. Especially developed for floor covering work and substrates where normal drying to permissible residual moisture levels is not possible, and where they must be quickly brought to a condition ready for covering installation. Special resin that, in contrast with many other EP resins, cures even on damp surfaces. An otherwise expensive moisture test using the Darr method can, as a general rule, be avoided.

Binder: Polyamine-hardened epoxy resin.

- Water- and solvent-free
- Excellent covering and filling capacity
- Water- and frost-resistant
- Chemical-resistant
- Very rapid setting, even on wet surfaces
- Shortened waiting time with "new subfloors"
- Solvent-free

Technical Data:

Packaging:	metal combi-can
Packsize:	10 kg
Shelf life:	min. 12 months
Colour:	yellowish
Hazard features:	see "Protection of the Workplace and the Environment"
Mixing ratio:	A : B = 100 : 65 parts by weight
Working temperature:	min. 15 °C / 59 °F at floor level
Pot-life:	30 – 45 minutes*
Consumption:	250 – 500 g / m² per coat
Set to foot traffic / load bearing:	after 12 – 24 hours*
Final strength:	after 3 – 5 days*

* At 20 °C / 68 °F and 65 % relative humidity.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN PE 480

Subfloor Preparation:

The subfloor must be sound, surface dry (no pooling, remove standing water), free from cracks, clean and free from materials that would impair adhesion.

Test the subfloor in accordance with applicable standards and notices and report any deficiencies. Depending on subfloor condition, the upper surface must have a good key provided in all cases. Brush, abrade, grind or shot-blast to remove any weak or soft surface layers, e.g. soft screed edges, hard sinter, separating agents, loose residues of adhesives, smoothing compounds, coverings or coatings. Then thoroughly vacuum.

Application:

1. Before use, allow the combi-can to come to room temperature. Punch several times through the plastic plug and floor of the upper container (hardener B), e.g. with a long screwdriver. Allow all of the hardener to drain into lower container (resin A). Remove the empty upper container and blend thoroughly using suitable mixing equipment (e.g. UZIN Spiral Mixer or UZIN Basket Mixer). Decant the mixed material into an oval bucket and briefly mix again. When mixing, ensure that the material around the floor and walls of the container is included and is well mixed.
2. Immediately apply the material evenly onto the surface with the UZIN Nylon Fibre Roller. On surfaces that are not too rough, the material can be spread with trowel notch B 2 and can then be evenly rolled out. Ensure a completely sealed coat. Observe the limited pot-life.
3. When used as a moisture barrier, a minimum of two coats is required. Apply the second coat as soon as the first will accept foot traffic, not later than 24 – 36 hours. To visually distinguish the second coat, add approx. 1 % of colour concentrate UZIN Epoxy-Colourant. For very thin consistency and increased penetration as a case-hardening primer, the first coat can be diluted with up to 10 % EP Thinners, UZIN VE 124. Then, there is no longer given the full moisture barrier.
4. For subsequent application of cement-based smoothing compounds or adhesive mortars, immediately broadcast, to form a dry excess, UZIN Fine Quartz Sand 0.8 (approx. 3 kg / m²) into the final coat whilst it is still wet (see "Important Notes"). After setting, brush and vacuum off any loose sand.
5. Clean tools immediately after use with UZIN VE 124. Hardened material can only be removed by mechanical means.
6. Setting times: Accepts foot traffic, and second coat can be applied, after 12 – 24 hours. 12 – 24 hours after gritting, the final coat can be brushed and vacuumed and further materials can be applied.
7. To accelerate the setting process and, therefore, allow faster continuation of work, the epoxy resin primer can have up to 0.4 kg of UZIN Epoxy Accelerator added (2 bottles). With a relatively short working time of approx. 10 minutes*, a covering of the epoxy primer after approx. 5 – 6 hours* can be assumed.

Attention: Limited working time must be observed.
* At 20 °C / 68 °F and 65 % relative humidity.

Consumption:

Depending on surface absorbency and condition, consumption with roller application is: 250 – 500 g / m² per coat.

Important Notes:

- Shelf-life minimum 12 months in original packaging when stored in relatively cool, dry conditions. In cold conditions, the material can thicken and be difficult to apply.
- Optimum working conditions are 15 – 25 °C / 59 – 77 °F. Low temperatures make application more difficult, increase consumption and strongly influence setting. High temperatures shorten the pot-life and setting time. The material and floor temperatures must be min. 15 °C / 59 °F.
- Concrete subfloors should be at least 3 days old.
- Before applying the primer, always ensure the surface has a good key and is clean so as to guarantee a strong mechanical bond.
- On highly absorbent or very porous surfaces, allow for application of a second coat.
- When applying as a moisture barrier, always apply two coats with approx. 350 – 500 g / m² in the first coat and 250 – 350 g / m² in the second coat. This is not a substitute for a damp-proof membrane in accordance with DIN 18 195, Part 4.
- Do not mix part quantities.
- Depending on type of installation, the following standards are applicable or especially recommended: DIN 18 365 "Working with floor coverings" / DIN 18 356 "Working with wood flooring" / DIN 18 352 "Working with large and small format tiles"

Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Comp. A: Irritant. Contains epoxy resin. Comp. B: Corrosive. Contains amine hardener. Both components: May cause irritations to eyes, skin or respiratory system. May cause sensitisation by skin contact. Use barrier cream, protective gloves and safety-goggles. Provide good ventilation. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In liquid form, "hazardous to the environment", therefore do not allow into drains, water courses or landfill. Observe safety information on product label as well as safety data sheet. Once cured, has neutral odour and presents no physiological or ecological risk.

Disposal:

Do not allow into drains, water courses or land-fill. Empty, scraped-out and drip-free metal containers are recyclable. Containers with unhardened residues and collected, unhardened product residues are Special Waste. Mixed and hardened product residues, as well as containers with mixed and hardened residues are Construction Waste.

05.12 | 05.12 | msl

PRODUCT DATA SHEET

Primer and additive

UZIN PE 520

Wet primer and additive for leveling compounds

Description:

Special dispersion as a primer diluted with 4 parts water as a wet in wet primer, it also can dry. As a additive for all UZIN cement leveling or low slump smoothing compounds when using on subfloors with deflection or movement.

Suitable for/on

- Very absorbent subfloors e.g. concrete, cement- or gypsum based screeds or leveling compounds
- Old well bonded adhesives and leveling compounds
- Plasterboards, render, brickwork
- Heavy wear in domestic, commercial and industrial locations
- Underfloorheating systems
- Exposure to castor wheels in accordance with DIN/EN 12 529

0736
Component of the System "Primary deck covering"

Product Properties/Benefits:

Water based dispersion primer with good bonding and penetration properties. Binds dust and reduces the absorbencies of the substrate. Due is special composition it can be used as a wet in wet primer with no drying time and it can also dry without losing bonding properties.

Additive for cement leveling compounds to improve flexibility and bond strength.

- Wet primer diluted 4 parts Water 1 part PE 520
- Plasticizer for leveling compounds
- Increases flexibility
- Increases bond strength
- Neutral odor
- Solventfree

Technical Data:

Packaging:	plastic canister
Packsize:	10 kg
Shelf life:	min. 12 months
Colour wet / dry:	white / transparent
Consumption as a additive:	1 kg per 20 kg bag
Consumption as a primer:	30 – 50 gr/m²
Working temperature:	min. 10° at floor level
Drying Time:	0 – 24 h

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN PE 520

Substrate Preparation:

As a primer: The substrate must be sound, dry, free from cracks, clean and free from materials that would impair adhesion.

Cement and calcium sulphate screeds must be abraded and vacuumed as a chargeable, secondary treatment.

Test the substrate in accordance with applicable standards and notices and report any deficiencies. Brush, abrade or shot-blast to remove any soft or weakly bonded areas. Thoroughly vacuum off the surface.

As an additive: See the Product Data Sheet for the UZIN cement levelling compound to be used.

Application:

As a primer on absorbent substrates: According to surface absorbency, dilute with 4 parts water by weight or volume. Then apply a full and even coat onto the surface using a foam or velour roller. Levelling compounds can be laid wet-in-wet without waiting for primer to dry.

As an additive: For leveling compounds replace 1 liter of mixingwater quantity with UZIN PE 520. As a rule, 6 to 8 litres of water per 25 kg sack of powder is required. For plasticizing, part of this water is replaced with UZIN PE 520 as follows:

Instead of 5,2 l of water:
4.2 liter water and 1 kg UZIN PE 520

Instead of 6 litres of water:
5 litres of water and 1.5 kg UZIN PE 520

Instead of 7 litres of water:
6 litres of water and 1.5 kg UZIN PE 520

Instead of 8 litres of water:
7 litres of water and 1.5 kg UZIN PE 520

1. Thoroughly mix the reduced cold water quantity and the UZIN PE 520 in a clean mixing container.
2. Sprinkle the content of the sack (20 kg) whilst stirring vigorously and blend to a lump-free mix. Use a suitable drill with UZIN Levelling Compound Mixer.
3. The consistency of the levelling compound with additive is somewhat thicker and stickier than without. As required, make a little thinner by adding a small amount of water. Under no circumstances mix too thin.
4. Apply the levelling compound with additive as detailed in the Product Data Sheets for the product.
5. Clean tools with water immediately after use.

Consumption:

as a primer diluted 1:2	approx. 50 g / m²
as a primer diluted 1:3	approx. 30 g / m²
as an additive per 1 mm levelling compound thickness	approx. 80 g / m²

Important Notes:

- Shelf-life minimum 12 months in original packaging when stored in relatively cool conditions. Protect from frost. Tightly re-seal opened containers and use as quickly as possible.
- Optimum working conditions are 15 – 25 °C / 59 – 77 °F, floor temperature above 15 °C / 59 °F, relative humidity below 75 %. Low temperatures and high humidity delay setting, drying and readiness for covering. High temperatures and low humidity shorten the working time for levelling compounds; therefore, in summer, use the coldest possible water.
- UZIN levelling compounds are fully, qualitatively prescribed for their relevant applications and usually require no additional improvement. It is required or recommended if applying levelling compound onto substrates with less than calculable deformation property, e.g. on mastic asphalt, old substrates etc.
- UZIN PE 520 is a component of the System "Primary deck covering", consisting of UZIN NC 170, UZIN PE 520, UZIN PE 460 and UZIN Quartz Sand 0.8. This system is certificated by the "See-Berufsgenossenschaft" Hamburg to meet the requirements of Marine Equipment module B and module D. Certificates are available on request. The admitted thickness is 8 mm. USCG-No. module B 164.106/EC0736/113.069.
- Refer to the Product Data Sheet for the UZIN levelling compound to be used and the applicable standards and notices listed therein, e.g. DIN 18 365 "Working with floor coverings", BEB publication "Assessment and preparation of surfaces".
- Example for a plasticised mortar: a multipurpose repair mortar is obtained by combining 4 parts by weight Portland cement and 2 to 3 parts by weight 0 – 3 mm sand, blended to the desired consistency with a mixture of 1 part by weight UZIN PE 520 and approx. 3 parts by weight of water.

Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Requires no special protection or precautions in general use. Avoid prolonged contact with skin or contact with eyes.

Disposal:

Where possible, collect all product waste and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste.

05.12 | 05.12 | msl

PRODUCT DATA SHEET

Rapid Drying

2-Component Trowel-Applied Primer

UZIN PE 630

Dispersion-Cement Primer-Filler

Description:

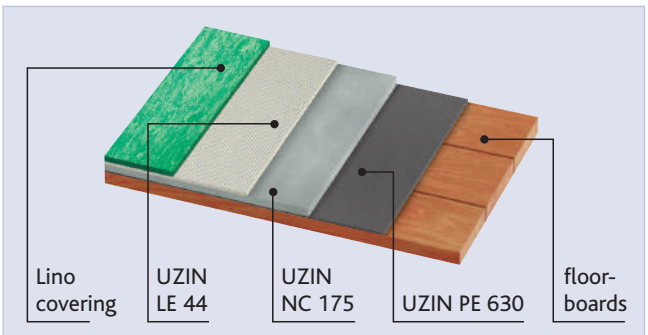
Very rapid drying, 2-component, dispersion-cement primer with paste consistency for substrates in renovation work prior to all types of preparation with cement or calcium sulphate levelling compounds. Interior use only.

Suitable for / on:

- priming of problematic old surfaces prior to application of levelling compounds
- rough or sanded wooden floorboards, chipboard V 100, OSB boards, wood flooring or other jointed wooden substrates
- substrates with well-bonded, waterproof or bituminous residues of adhesives or levelling compounds
- un-gritted mastic asphalt
- coatings that have been matt-sanded
- dense and smooth substrates or old floor finishes such as, e. g. well-bonded ceramics and natural stone, terrazzo
- magnesia- and stone-wood-screeds, UZIN Multimoll Top 9 / Top 15 boards
- heavy wear in domestic, commercial and industrial locations
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529
- as a system component in high-speed construction

Product Properties / Benefits:

Polymer dispersion with a water-binding powder component. When mixed, produces a primer with paste consistency, good filling capacity and excellent application- and user-properties. UZIN PE 630 provides confidence due to its



GEV-EMICODE EC 1 PLUS very low emission

exceptional speed, high flexibility and maximum adhesion to the substrate or to mineral-based levelling compounds. It sets hydraulically, fills, seals and smoothes the substrate, dries "semi-flexible" and can, therefore, accommodate movement in the substrate.

Composition: Modified styrol copolymers, special cements, mineral aggregates and additives.

- Fills, seals and smoothes in one application
- For application thickness up to 1 mm
- Sets hydraulically
- Flexible and ductile when set
- Excellent adhesion
- High-speed construction product
- Low chromate content (powder component)
- Solvent-free (dispersion component)
- EMICODE EC 1 R PLUS / Very low emission

Technical Data:

Packaging:	plastic drum containing plastic canister and paper sack
Packsize:	16 kg combined unit
Shelf life:	min. 6 months
Colour (A+B) liquid / dry:	light grey / dark grey
Mixing ratio:	A : B = 3 : 5 parts by weight
Pot life:	50 – 60 minutes*
Consumption:	100 – 600 g/m²
Working temperature:	min. 15 °C / 59 °F at floor level
Drying time, ready for coating after:	40 – 120 minutes*

*At 20 °C / 68 °F and 65 % relative humidity with a maximum thickness of 1 mm. See also "Applications Chart"

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | DE-89079 Ulm | Telefon +49 (0)731 4097-0 | Telefax +49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.com
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN PE 630

Substrate Preparation:

The subfloor must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease) that would impair adhesion. Test the subfloor in accordance with applicable standards and notices and report any deficiencies. Brush, abrade, grind or shot-blast to remove any weakly bonded or soft surface sections, e.g. separating agents, loose residues of adhesives, levelling compounds, coverings or paints, etc. Thoroughly vacuum to remove loose material and dust. Test well-bonded residues of adhesives and levelling compounds to ensure they are waterproof. If not waterproof (water test: adhesive bed dissolves with short-term exposure to water) use the water- and solvent-free 2-Component Epoxy Primer-Sealer UZIN PE 460. Always allow primers to dry thoroughly. Refer to the Product Data Sheets for other products used.

Application:

1. The original 16 kg container is designed to serve as the mixing container. Take the dispersion and powder components out of the original container. Pour out the dispersion component A into the original 16 kg container, sprinkle in the powder component B whilst stirring vigorously and blend to a lump-free mix. Mix thoroughly for several minutes using a basket mixer attachment. Only mix as much primer as can be applied within approx. 60 minutes.
2. Apply a thin coat of UZIN PE 630 using a smoothing trowel.
3. To make filling of jointed substrates easier, up to 10 kg of UZIN NC 182 can be added per 16 kg container of mix.

Applications Chart:

Allow the primer to dry until it will accept foot traffic and the colour changes from light grey to dark grey.

If applying calcium sulphate levelling compound to a thickness of more than 5 mm, a drying time of 12 hours for the primer must be observed.

Substrate	Consumption	Drying Time
Chipboard, wooden sub-strates, old wood flooring, UZIN Multimoll Top boards	100 – 300 g/m²	40 – 60 min.*
Well-bonded, waterproof adhesive residues	100 – 300 g/m²	40 – 60 min.*
Un-gritted mastic asphalt, coatings, natural stone flooring, ceramics, terrazzo, magnesia- and stone-wood-screeds	100 – 300 g/m²	90 – 120 min.*
Heavily jointed substrates (addition of UZIN NC 182 is possible)	300 – 600 g/m²	90 – 120 min.*

*At 20 °C/68 °F and 65 % relative humidity with a maximum joint width of 1 mm with no material added to the primer.

Important Notes:

- Shelf life minimum 6 months in original packaging when stored in relatively cool conditions. Protect from frost. Carefully and tightly reseal opened containers and use the contents as quickly as possible.
- Optimum working conditions are 15 – 25 °C/59 – 77 °F, floor temperature above 15 °C/59 °F and relative humidity below 75 %. Low temperatures and high humidity lengthen, and high temperatures and low humidity shorten the drying time.
- On heavily jointed substrates, up to max. 10 kg of UZIN NC 182 can be added per 16 kg container.
- Do not use outdoors or in wet areas.
- If applying a levelling coat of more than 10 mm thickness, epoxy-resin primers such as gritted UZIN PE 460 are preferable – alternatively, obtain technical advice.
- If applying a calcium sulphate levelling coat of more than 5 mm thickness, a longer drying time for the primer is required. See "Applications Chart".
- Not suitable on water-soluble adhesive residues (e.g. sulphite adhesives) or fixatives. Here, use gritted UZIN PE 460.
- UZIN PE 630 mixed with UZIN NC 182 can, on suitable substrates, be used as a base for direct adhesion of textile floor coverings.
- The following standards and notices are applicable and especially recommended:
  - DIN 18 365 "Working with floor coverings"
  - DIN 18 356 "Working with wood flooring and wood-blocks"
  - DIN 18 352 "Working with tiling and natural stone"
  - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  - BEB publication "Assessment and preparation of surfaces"

Protection of the Workplace and the Environment:

Dispersion component A:
Solvent-free. Non-flammable. Requires no special protection or precautions in general use. Use of barrier cream and ventilation of the work area are recommended.

Powder component B:
Contains cement low in chromate acc. Regulation (EC) No 1907/2006 (REACH). Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse immediately with water. In the event of skin or eye irritation, seek medical advice. When mixing wear a protective dust-mask. Use protective gloves.

Presents no physiological or ecological risk when fully cured.

Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Comp. A: Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste, those with cured residues are Construction Waste. Comp. B: Empty paper bags are recyclable. Collect waste material, mix both components and allow to harden, then dispose as Construction Waste.

PRODUCT DATA SHEET

ready for covering after 15 min on absorbent subfloors

Turbo skim and repair compound

UZIN NC 888

Rapid patching and smoothing compound

Description:

Very fine, smooth and extremely rapid setting compound on old adhesive residues without primer and for smoothing out to a feather-edge.

Excellent bonding properties to plywood, concrete, smoothing compounds, terrazzo, and ceramic tiles. For use as a smoothing compound up to 4 mm thickness.

Smoothing over trowel marks or surface imperfections in old and new cement-based compounds. Ideal as a filler for small imperfections, holes and surface damage. For skimming over jointed surfaces and improving the surfaces finish on screeds, existing subfloors and stairs. Excellent adhesion – even without primer – to all usual construction surfaces prior to installation of floor coverings. For interior use only.

Suitable for / on:

- new or old cement levelling compounds
- existing substrates with well-bonded, waterproof residues of adhesives and levelling compounds
- dense, mineral substrates
- large and small format tiling and natural stone
- dry screed materials, chipboard and OSB boards
- all standard construction screeds, concrete or other substrate types
- also for use as a "low-slump smoothing compound" on old adhesive residues and for smoothing out to a feather-edge
- heavy wear in domestic and commercial locations
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529
- as a system component in high-speed construction

Product Properties / Benefits:

Extremely fine aggregate, therefore can be used as a smoothing compound with a tight, sealed finish for a "feather-edge" up to a max. thickness of 4 mm. Very rapid setting and drying and, once set to accept foot traffic, ready for covering after a further approx. 15 min on well absorbent subfloors.*

Composition: special cements, mineral additives, polyvinyl acetate copolymers and additives.

- from a "feather-edge" up to 4 mm thickness
- no primer required
- extremely rapid drying due the chemical conversion of the mix water
- excellent surface finish extented
- fine aggregate
- bags are protected against damage
- plastic drum is available for mixing powder
- extended shelf life in original unopend drum
- profit yielding

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN NC 888

Technical Data:

Packaging:	bag and plastic drum
Pack size:	4.5 kg
Shelf life:	min. 12 months
Required water quantity:	2.0 litres per 4.5 kg drum
Part quantities:	three parts powder / one part water
Colour:	grey
Working temperature:	min. 5 °C / 40 °F on floor level
Working time:	approx. 10 minutes*
Set to foot traffic:	after approx. 10 minutes*
Ready for floor coverings:	after approx. 15 minutes*

* At 20 °C / 70 °F and 50 % relative humidity at maximum thickness of 4 mm and well absorbent subfloors. See also "Application".

Substrate Preparation:

The substrate must be sound, load-bearing, dry, free from cracks and free from materials that would impair adhesion (dirt, oil, grease). Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Remove any weak or soft surface areas, e.g. separating agents, loose residues of adhesives, compounds, coverings or coatings, etc., e.g. by brushing or abrading. Thoroughly vacuum off all loose material and dust. Due to its very high polymer content, no primer is required on most surfaces. On very smooth substrates, such as coatings or painted surfaces, use UZIN PE 460 gritted, UZIN PE 630 or UZIN PE 280. On very absorbent or sandy surfaces, application will be made easier if primed with UZIN PE 360.

Refer to the Product Data Sheets for other products used.

Application:

1. Mix UZIN NC 888 with water in the desired quantity. For 4.5 kg, the correct water quantity is 2.0 litres. When mixing part quantities, using three parts powder and one part of water will usually produce the ideal consistency.
2. Put cold, clean water into a clean container. Sprinkle in the powder whilst stirring vigorously and mix until lump-free. Only mix as much mortar as can be used within the working time of 10 minutes.
3. Apply the compound evenly onto the substrate to the desired thickness using a smoothing trowel. After approx. 10 minutes*, UZIN NC 888 can be worked or smoothed. The recommended thickness on non-absorbent surfaces is min. 1 mm.
4. Ready for covering after approx. 15 minutes* in normal floor covering installations.

* At 20 °C / 70 °F and 50 % relative humidity.

Consumption:

Thickness	Approx. coverage per 4.5 kg
1 mm	4.1 m²
4 mm	1 m²

Important Notes:

- Do not use as a levelling compound under wood flooring. For this, use UZIN NC 174 or UZIN NC 170 LevelStar.
- Do not use in exterior or wet areas.
- Do not use as a screed or wearing surface – a surface covering must always be installed.

Protection of the Workplace and the Environment:

PRECAUTIONS:
CAUTION: Irritant. Contains cement. Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes.
FIRST AID: In case of skin or eye contact, rinse thoroughly and immediately with water. In the event of skin or eye irritation, obtain medical treatment. When mixing wear a protective dust-mask. Use protective gloves.
Observe safety information on product label as well as material safety data sheet (MSDS). Presents no physiological or ecological risk when fully cured.

DOT UN-Number: Not regulated
Hazard Class/PG: Not regulated

Disposal:

Disposal should be in accordance with local, state or national legislation. Where possible, collect product residues and re-use. Do not allow into drains, watercourses or landfill. Empty paper packagings are recyclable. Hardened product residues are Construction Waste. Therefore collect waste material, mix with water and allow to harden, then dispose as Construction Waste.

05.12 | 05.12 | msl

PRODUCT DATA SHEET

Universal acrylic adhesive

UZIN KE 2000 S NEW

Adhesive for resilient floor coverings
as well as universal adhesive for all common floor covering types

Applications:

Strong dispersion-based adhesive with latest raw material technology with shortest open time and nonetheless long installation time for application a pressure sensitive, a wet set adhesive and double-drop bonding method. Special adhesive for PVC and rubber flooring in commercial projects as well as universal adhesive for all common floor covering types. For use on floors and walls. For interior applications.

Main application area for:

- Homogeneous and heterogeneous PVC / CV floor coverings in sheets and tiles.
- Rubber flooring in sheets, e.g. noraplan® up to 4 mm, including floor coverings with acoustics or foam underlay.

Suitable also as universal adhesive for:

- Textile floor coverings with all common backings
- Light-weight needle punch floor covering or woven carpet
- PVC / CV floor coverings, also Luxury Vinyl Tiles
- For linoleum runs up to 3.2 mm thick

UZIN KE 2000 S NEW provides the highest possible level of emission safety and contributes to creating a healthy room climate. Marked with the **"Blue Angel"** for low-emission floor covering adhesives and other installation materials according to RAL-UZ 113.

UZIN ÖKOLINE

GEV-EMICODE EC 1 PLUS very low emission

DER BLAUE ENGEL weil emissionsarm schützt die GESUNDHEIT

0736 11

Composition: Plastic dispersions, modified resins, thickeners, wetting, defoaming and preservation agents, mineral fillers, water.

Product benefits / features:

A new choice of raw materials has resulted in numerous property improvements providing the installer with additional advantages, certainty and beneficial claims:

- Odourless during and after processing
- Very easy to apply
- Short open time
- Long working time
- Good tack with stringing
- GISCODE D1 / solvent-free
- EMICODE EC 1 PLUS / very low emission PLUS
- RAL UZ 113 / environmentally compatible because of very low emission

Technical Data:

Packaging:	Plastic bucket
Packsizes:	14 kg, 6 kg, 2 kg
Shelf life:	min. 12 months
Colour wet / dry:	crème-white / transparent
Consumption:	200 – 500 g/m²
Working temperature:	min. 15 °C at floor level
Open time:	10 – 45 minutes*
Working time:	approx. 120 minutes*
Load bearing:	after 24 hours*
Final strength:	after 3 days*
Joint welding:	after 24 hours*

* At 20 °C and 65 % relative humidity, depending on the floor covering as well as bonding method.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | D-89079 Ulm | Telefon + 49 (0)731 4097-0 | Telefax + 49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.de
NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | Whangaparaoa 0930 | New Zealand | Phone +64 9 4240366 | Mobile +64 21 933780 | E-mail ufloor-systems@xtra.co.nz

UZIN KE 2000 S NEW

Extended applications:

Suitable as special adhesive for:

- Chlorine-free resilient floor coverings, e.g. Upofloor LifeLine®
- PUR floor coverings in sheet up to 2.0 mm, e.g. WPT PURline®
- Flotex
- Wall coverings, e.g. PVC floor coverings in bathrooms
- Sports flooring, e.g. PVC floor coverings in sports halls

Suitable also as universal adhesive for:

- Textile floor coverings with all common backings, including Latex foam backing, fleece backing or similar.
- Korkment as well as for all UZIN insulation and installation underlays

Suitable on / for:

- absorbent, levelled substrates in wet or semi-wet process
- dense, non-absorbent substrates, such as on coatings, UZIN KR 410 or on insulation underlays in pressure adhesion method (only PVC / CV floor coverings)
- dense, non-absorbent substrates in double-drop method (only PVC / CV floor coverings and rubber flooring)
- high strain in residential, commercial and industrial areas, e.g. in hospitals, high-traffic shopping malls, shops, etc.
- hot water underfloor heating
- strain from chair castors according to DIN EN 12 529 from 1 mm compound thickness
- Wet shampooing and spray extraction cleaning according to RAL 991 A2

Substrate preparation:

The substrate must be sound, level, dry, free of cracks, clean and free of materials that could impair adhesion.

Test the substrate in accordance with applicable standards and bulletins and report any deficiencies. Thoroughly vacuum off, prime and smooth surface.

Depending on the substrate, floor covering and strain suitable primers and levelling compounds can be taken from the UZIN product overview.

Always allow primer and levelling compound to dry well all the way through. Thoroughly grind out and clean or degrease dense, non-absorbent substrates (e.g. when installing PVC floor covering on UZIN KR 410). Observe the product data sheets of the other UZIN products as well as the floor coverings used.

Application:

1. Apply adhesive uniformly with suitable notched trowel (see "Consumption data") onto the substrate and allow to dry partially according to the intended bonding method, the application amount, the indoor climate, the absorbency of the substrate and the type of floor covering.
   Do not apply more adhesive than can be laid with good transfer to the back of the covering within the working time. Use only the wet / semi-wet method with standard installations on levelled substrates.
2. Install the floor covering with short open time; the adhesive groove should be pressed out. Rub in or roll out or apply weight against extreme flooring deformation or mill first. Ensure that air is not trapped under the covering. Allow the area to rest for 20 minutes and then roll out again or rub in at edge and seam area.
3. Remove adhesive residues while fresh with warm water.

UZIN KE 2000 S NEW

Consumption information:

Consumption information:	Notch size	Consumption*
Smooth, e.g. cushioned vinyl on dense substrates	A 5	180 – 200 g/m²
Smooth, e.g. CV floor coverings, luxury floor coverings, LifeLine® etc.	A 1	200 – 280 g/m²
Slightly reliefed, e.g. PVC floor coverings, luxury floor coverings, rubber flooring, etc.	A 2	250 – 320 g/m²
Reliefed, e.g. textile floor coverings, linoleum, soft needle punch floor covering, etc.	B 1	320 – 380 g/m²
Reliefed, e.g. coarse needle punch floor covering, woven carpets, etc.	B 2	450 – 500 g/m²

*At 20 °C and 65 % relative humidity at room temperature adhesive packs on UZIN NC 170 LevelStar.

Application table:

Floor covering on levelled substrates "Wet / semi-wet method"	Notch size	Open time	Working time
CV floor coverings on levelled substrates	A 5	10 – 20 min.	15 – 25 min.
PVC floor coverings, rubber flooring on levelled substrates	A 2	15 – 20 min.	20 – 40 min.
Textile floor coverings, linoleum on levelled substrates	B 1	20 – 30 min.	30 – 45 min.
Coarse needle punch floor covering on levelled substrates	B 2	10 – 20 min.	30 – 45 min.

Floor coverings on dense substrates "Pressure-Sensitive adhesive method"	Notch size	Open time	Working time
PVC floor coverings on UZIN KR 410 or dense installation underlay	A 5	30 – 40 min.	1 – 2 hours

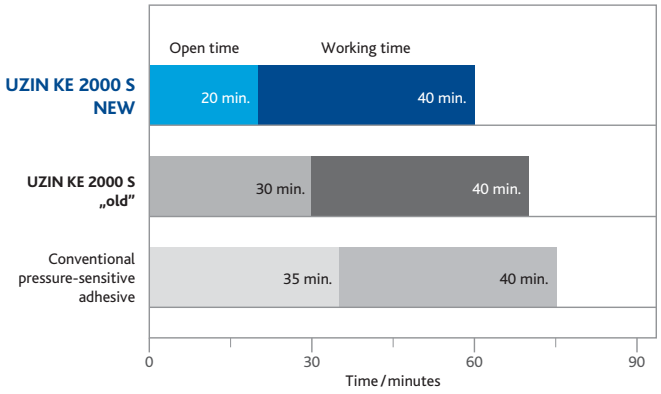
Floor coverings on dense substrates "Double-drop method"	Notch size	Open time	Working time
Rubber flooring on smooth, dense coating	A 5	10 min, remove floor covering again, then 20 min.	45 min.

* At 20 °C and 65 % relative humidity with room-temperature adhesive containers.

Practice information:

This is a typical situation easy to master with UZIN KE 2000 S NEW: Installation of PVC floor covering during ongoing operation on an installation underlay, here, for example, on UZIN RR 186.

Partial drying and installation time of various pressure-sensitive adhesives:



PVC sheet installation on UZIN NC 170 LevelStar, notch size A 2, at 20 °C and 65 % relative humidity.

The open time required for pressure-sensitive adhesives could be minimised with the raw material choice of the new UZIN KE 2000 S without shortening the installation. This provides greater certainty to the installer and fewer restrictions with the different construction site conditions. The floor covering can therefore be installed earlier with many applications. The installer becomes significantly faster through the earlier installation option; the adhesive is thereby better pressed out. This has a positive effect on the overall look of the installed floor covering area; the floor covering lies flatter and quieter.

UZIN KE 2000 S NEW

Important notes:

- Shelf life at least 12 months in original packaging when stored in moderately cool conditions. Frost-resistant to – 10 °C. Tightly re-seal opened containers and use the contents as quickly as possible. Allow adhesive to reach room temperature before processing.
- Optimum processing at 18 – 25 °C, floor temperature above 15 °C and relative humidity below 65 %. Low temperatures and high humidity will delay whilst high temperatures and low humidity will accelerate the installation, setting and drying time. Whilst installing linoluem, the room temperature should not fall below 20 °C.
- Moist substrates may cause secondary emissions and odours. Good drying of the levelling compound must therefore be observed with levelled substrates.
- Direct bonding on old adhesive residues can cause interactions and thus unpleasant odour development. Old layers should therefore ideally be removed. At any rate, old adhesive residues need to be reworked with a barrier primer and levelled generously with a self-levelling compound at sufficient thickness (usually 2 mm).
- Floor coverings must be adequately free from tension before bonding them and adequately acclimatized and have adapted to the indoor climate common for the future use.
- Install, roll-out and rework in wet / semi-wet method according to "Application table". If the adhesive groove is still crème-white or merely dried on the surface. The tack is not yet present or is only minor.
- In pressure adhesive methods allow to partially dry until the colour of the adhesive changes from crème-white to transparent. Then install, roll-out and rework.
- In double-drop method, install the floor covering wet and rub in. Fold back immediately and allow backing of floor covering and substrate to partially dry until tacking can be felt (finger test); however, the adhesive groove must not be fully transparent. Then install, roll-out and rework.
- UZIN KE 2000 S NEW can be used for the installation of rubber flooring, e.g. noraplan® or also for luxury vinyl tiles. However, with the fibre-reinforced wet adhesive UZIN KE 66 the floor covering can be installed earlier into the adhesive bed. The result is an even better surface quality at a lower risk or residual indentation during subsequent use as well as increased dimensional stability of finally installed floor coverings at high heat exposure, e.g. from exposure to light.
- In case of extreme temperatures from exposure to light, heavy mechanical strain from pallet trucks, fork lifts, etc. or when exposed to wetness from the top, a synthetic resin adhesive such as UZIN KR 430 or UZIN KR 421 must be used. Obtain application advice in case of doubt.
- Wall bonding is handled effortlessly with UZIN KE 2000 S. To do so, apply the adhesive with a lamb's wool roller onto the prepared wall, work immediately with the appropriate notch size and allow to partially dry. Install and rub in floor covering. If need be, fix at the upper end with solvent-free contact adhesive UZIN WK 222.
- UZIN KE 2000 S has the approval as shipbuilding equipment product by the maritime occupational association (formerly "See-Berufsgenossenschaft Hamburg"), module B and module D. Certificates are available upon request. Application amount max. 320 g/m².
- Observe the generally acknowledged rules of the industry and technology for the installation of floor covering as well as the respective applicable national standards. (E.g. EN, DIN, VOB, OE, SIA and others). The following standards and bulletins apply as well, amongst others, or are recommended for special consideration:
  – DIN 18 365 "Working with floor coverings"
  – TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  – BEB publication "Assessment and preparation of substrates"
  – TKB publication "Bonding of PVC floor covering"
  – TKB publication "Bonding of elastomer floor covering"
  – TKB publication "Bonding of linoleum floor covering"
  – TKB publication "Bonding of textile floor covering"

Protection of the workplace and the environment:

GISCODE D1 – solvent-free as per TRGS 610. The use of skin protection lotion is always recommended. Store out of reach from children. Provide thorough ventilation during and after processing / drying! Avoid eating, drinking and smoking while processing the product. In the event of contact with the eyes or skin, rinse thoroughly and immediately with water. Do not allow to enter the sewer system, bodies of water or the soil. Clean the tools with water and soap immediately after use. The basic prerequisites for optimal room air quality after floor covering work consist of installation conditions conforming to standards and well-dried substrates, primers and levelling compounds. **Product contains isothiazolinones. Information for persons with allergies is available at +49 (0)731 4097-0 (Germany).**

Disposal:

Collect product residues wherever possible and reuse. Do not allow to enter the sewer system, bodies of water or the soil. Plastic containers emptied or scraped clean and no longer dripping from any residues can be recycled [Interseroh]. Containers with liquid residues as well as collected liquid product residues are special waste. Containers with cured residues are construction waste / domestic waste.

05.12 | 05.12 | 0.000 | msl

PRODUCT DATA SHEET

Conductive universal adhesive

UZIN KE 2000 SL NEW

Conductive fibre adhesive for PVC, rubber, linoleum and textile floor covering in sheets and tiles

Areas of application:

Very low-emission, electrically conductive wet and adhesion bed dispersion-based adhesive for the installation of conductive PVC, rubber, linoleum and textile flooring on absorbent and non-absorbent substrates. With short open time and heavy duty use. For interior applications.

Suitable for:

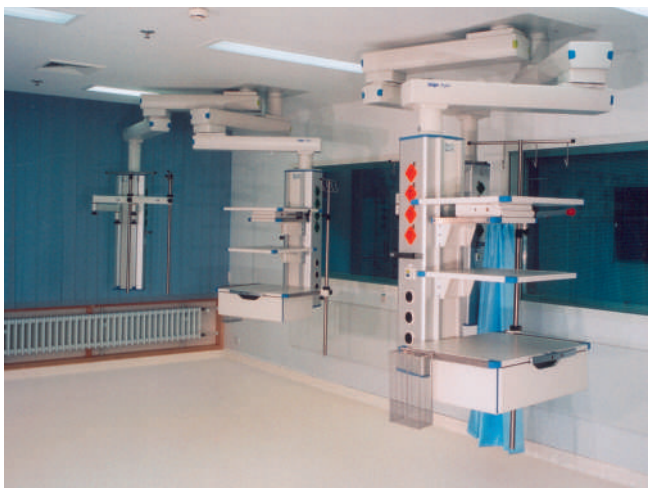
- conductive PVC covering and rubber flooring up to a thickness of 4 mm in sheets and tiles (use tooth profile 23/80)
- conductive textile floor coverings (use tooth profile 23/TL)
- conductive linoleum floor covering in sheets and tiles up to a thickness of 4 mm (use tooth profile 23/TL)
- heavy use in residential, commercial and industrial areas, e.g. in hospitals, operating theatres, computer rooms, production buildings, etc.
- strain from chair castors according to DIN EN 12 529
- wet-shampooing and spray extraction cleaning

Suitable for use on:

- absorbent, levelled substrates
- dense, non-absorbent substrates such as coatings, UZIN KR 410.
- Hot water underfloor heating

Product benefits / features:

Ready-to-use, water-based dispersion adhesive with high final strength and conductive carbon fibres stabilising the adhesive applied and better protecting the freshly installed floor covering during installation against pressure marks, e.g. from knee impressions. At the same time, the fibre additive has a positive effect on the residual impression behaviour of the installed floor covering during later use.



UZIN ÖKOLINE

THE BLUE ANGEL because low-emission protects the ENVIRONMENT and the HEALTH

GEV-EMICODE EC 1 PLUS very low emission

notched trowelblade included

Composition: Plastic dispersions, thickeners, wetting, defoaming and preservation agents, carbon fibres, mineral fillers, water.

- Pronounced conductivity stability
- Easy to brush
- Pronounced adhesive stringing
- Fast tack
- Low consumption
- High shear resistance
- Solvent-free
- EMICODE EC 1 PLUS/very low-emission
- RAL UZ 113/very low-emission and hence eco-friendly

Technical data:

Packaging:	Plastic bucket
Packsize:	14 kg
Shelf life:	min. 12 months
Colour:	Dark grey
Consumption:	notch size 23/80 approx. 250 – 300 g/m² notch size 23/TL approx. 500 – 600 g/m²
Working temperature:	min. 15 °C at ground level
Open time:	10 – 30 minutes*
Working time:	Approx. 1 hour*
Set to traffic:	after 24 hours*
Final strength:	after 3 days*
Sealing/jointing seams:	after 24 hours*
Leakage resistance according to DIN EN 13 415:	< 3 x 10^5 Ω

*At 20 °C and 65 % relative humidity.

UZIN | A Brand of Uzin Utz AG

DE | Uzin Utz AG | Dieselstraße 3 | DE-89079 Ulm | Telefon +49 (0)731 4097-0 | Telefax +49 (0)731 4097-214 | E-Mail info@uzin.com | Internet www.uzin.com

GB | Uzin Ltd. | Unit 2, Mitchell Court | Central Park, Rugby, Warwickshire | CV23 0UY | Phone +44 (0)1788 530 080 | Fax +44 (0)1788 536 508 | E-mail info@uzin.co.uk | Internet www.uzin.co.uk

UZIN KE 2000 SL NEW

Substrate preparation:

The substrate must be sound, level, dry, free of cracks, clean and free of materials that could impair adhesion. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies. Thoroughly vacuum off, prime and smooth surface. Depending on the substrate, floor covering and strain suitable primers and levelling compounds can be taken from the UZIN product overview.

Always allow primer and levelling compound to dry well all the way through. Observe the product data sheets of the other UZIN products as well as the floor coverings used.

Conductive system:

Consult the floor covering manufacturer for the conductive system; the following versions are possible:

With copper tape lug (sheet coverings):
Route a self-adhesive UZIN conductive copper strip, approx. 1.5 m long, for each 30 m² to the earth potential connection. The spacing of the copper tape lug may not exceed 7 m.

With UZIN conductive copper tape:
Apply UZIN conductive copper tape to the substrate, along and centred under each row of tiles or sheet grid, from wall to wall. Connect the ends of the tapes with cross-tapes at a wall distance of approx. 30 cm. Allow one tab per approx. 30 m² subsection to protrude as connecting lug.

The conductive system must be earthed by an electrician according to VDE regulation.

Consumption information:

Substrate backing	Notch size	Consumption*
Strong relief, e.g. textile backing	23/TL	500 – 600 g/m²
Coarse relief, e.g. needle punch, woven carpet	23/TL	500 – 600 g/m²
Linoleum	23/TL	500 – 600 g/m²
Rubber, sanded backing, e.g. Noraplan®	23/80	250 – 300 g/m²
PVC as sheets and tiles	23/80	250 – 300 g/m²

* At 20 °C and 65 % relative humidity, on levelled substrates with room-temperature adhesive containers.

Processing:

1. Apply adhesive uniformly to the substrate with the enclosed special square-notched trowel 23/80 or 23/TL and allow to dry according to the application amount, indoor climate, absorbency of the substrate and the type of floor covering. Do not apply more adhesive than can be laid with good wetting of the back of the covering within the working time.
2. Install the floor covering with short open time; the adhesive groove should be pressed out. Rub in or roll out, or apply weight against extreme flooring deformation or mill first. Ensure that air is not trapped under the covering. Allow the surface to rest for 20 minutes and rub in seam area.
3. Remove adhesive residues while fresh with water.
4. Non-absorbent substrates have a longer open time. Installation as pressure-adhesive process.

Important notes:

- Shelf life min. 12 months in original packaging when stored in moderately cool conditions. Frost-resistant to –6 °C. Re-seal opened containers tightly and use contents as quickly as possible. Allow adhesive to reach room temperature before processing.
- Optimum working at 18 – 25 °C, floor temperature over 15 °C and relative humidity below 65 %. Low temperatures and high humidity will delay whilst high temperatures and low humidity will accelerate the installation, setting and drying time.
- Direct bonding on old adhesive residues can cause interactions and thus unpleasant odour development. Old layers should therefore ideally be removed. At any rate, old adhesive residues need to be reworked with a barrier primer and levelled generously with a self-levelling compound at sufficient thickness (usually 2 mm).
- Moist substrates may cause secondary emissions and odours. Best possible drying of the levelling compound must therefore be observed with levelled substrates.
- Floor coverings must be adequately free from tension before bonding them and adequately acclimatized and have adapted to the indoor climate common for the future use.
- Obtain application consulting in case of extraordinary stresses (extreme exposure to light, effect of moisture, or similar).
- Obtain application consulting when used on installation substrates such as UZIN RR 185.
- Observe generally acknowledged industry and technology best practice when laying floor coverings, plus the respective applicable national standards. (e.g. EN, DIN, VOB, Ö-standard, SIA and others). The following standards and bulletins apply as well, amongst others, or are recommended for special consideration:
  – DIN 18 365 "Working with floor coverings"
  – TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  – BEB publication "Assessment and preparation of substrates"
  – TKB publication "Bonding of PVC floor covering"
  – TKB publication "Bonding of elastomer floor covering"
  – TKB publication "Bonding of linoleum floor covering"
  – TKB publication "Bonding of textile floor covering"

Protection of the workplace and the environment:

Solvent-free. The use of skin protection lotion is recommended as a rule. Store out of the reach of children. Ensure thorough ventilation during and after working / drying! Do not eat, drink or smoke while working with the product. In the event of contact with the eyes or skin, rinse immediately with plenty of water. Do not dispose of into the sewer system, open water or the soil. Clean tools with water and soap immediately after use. The basic prerequisites for optimal room air quality after floor covering work consist of installation conditions conforming to standards and well-dried substrates, primers and levelling compounds.

Product contains isothiazolinones.
For allergy information, call +49 (0)731 4097-0 (Germany).

Disposal:

Collect and reuse product residues wherever possible. Do not dispose of into the sewer system, open water or the soil. Plastic containers emptied or scraped clean and no longer dripping from any residues can be recycled. Containers with liquid residues are classified as special waste, as are collected liquid product residues. Containers with residues that have dried solid are classified as construction / household waste.

PRODUCT DATA SHEET

System Primer

UZIN L 3 Gold System Primer

Primer for L 3 Gold Moisture Control System

Description:

System primer for L 3 Gold in areas of high moisture. For interior use prior to installation of L 3 Gold Moisture Control System.

Suitable for / on:

- the subsequent levelling work of L 3 Gold Moisture Control prior to the installation of textile and elastic floor coverings of all types, e. g. textile surfaces, PVC / CV coverings, PVC design flooring or linoleum
- normal stress demands in the residential and commercial sectors
- stressing with chair castors to DIN EN 12 529

Product Properties / Benefits:

The processing is simple, rapid and clean. The total consumption quantity with approx. 130 g/m² is very low, and there is no material loss through curing, as in case of 2-component products.

Composition: Polymer dispersion dispersion, wetting and anti-foaming agents, water.

- Simple handling
- Very rapid drying
- Without quartz sand sprinkling
- Solvent-free
- EMICODE EC 1 PLUS / Very low emissions PLUS

Technical Data:

Packaging:	plastic canister
Packsize:	5 kg, 10 kg
Shelf life:	12 months
Colour liquid / dry:	beige / transparent
Danger features:	none
Consumption:	60 – 130 g/m²
Working temperature:	min. 10 °C at floor level
Ideal working temperature:	15 – 25 °C at floor level
Drying time:	approx. 1 hour*

* At 20 °C and 65 % relative air humidity.

UZIN | A Brand of UFLOOR Systems

NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | 5 Clayden Dr. | Gulf Harbour | Whangaparaoa 0943 | New Zealand | Telephone +64 9 424 0366 | Telefax +64 9 428 1643
E-mail ufloor-systems@xtra.co.nz | Internet www.uzin.co.nz

UZIN L 3 Gold System Primer

Substrate Preparation:

The substrate must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease) which would impair adhesion. Cement screeding must be abraded and vacuumed off. Test the substrate in accordance with applicable standards and specification sheets and report any deficiencies.

Remove any adhesion-reducing or unstable layers e.g. cement elutriate, separating layers and sintering layers and similar, e.g. by brushing off, abrading, grinding off or gently shot-blasting. UZIN L 3 Gold System Primer cannot penetrate sufficiently on sealed substrates, therefore the absorption capacity must first of all be checked and, where appropriate, established. Grind off polished screeds or gently shot-blast. Thoroughly vacuum off loose material and dust. Allow primer to dry out completely.

Refer to the Product Data Sheets for other products used.

Application:

1. Allow containers to come to room temperature before use and shake thoroughly.
2. Apply priming on the substrate with the UZIN foam roller uniformly, fully, over entire surface and pore-filling. Avoid puddle formation. Allow to dry until the film is virtually tack-free.
3. Clean tools with water immediately after use.

Important Notes:

- Shelf life minimum 12 months in original container in case of moderately cool storage. Protect against frost. Tightly re-seal opened containers and use the contents as quickly as possible. Process material mixed with water within a few days.
- Optimum working conditions are 15 – 25 °C, floor temperature above 15 °C and relative humidity below 65 %. Low temperatures and high air humidity extend the drying time, high temperatures and low air humidity shorten the drying time.
- If the RH levels are above 90 % please contact UZIN Technical.
- UZIN L 3 Gold System Primer must not be employed on floor areas where the continuous action of moisture could cause damage (e.g. calcium sulphate screeds, magnesia and stone wood screeds etc).
- In case of smoothing work above 10 mm layer thickness, please contact UZIN Technical.
- With employment under wood flooring, intermediate smoothing is always to be used. A direct bonding is not admissible.
- The surface roughness, surface strength, homogeneity and absorption capacity of the substrate is of decisive importance to the bond strength and ultimately the functionality of the blocking priming. On a structurally sound surface, the sealing system can ideally dig in and counter any possible moisture penetration.
- Among other things, the following standards and specification sheets are applicable and / or recommended for special observation:
  – AS 2455.2007 „Working with floor coverings”
  – AS 1884.2012 „Working with parquet and wood blocks”

Protection of the Workplace and the Environment:

Solvent-free. Non-flammable. Requires no special protection or precautions in general use. Use of barrier cream and ventilation of the work area are recommended. EMICODE EC 1 PLUS – very low emission PLUS. Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC). When fully dried, has a neutral odour and presents no physiological or eco-logical risk. Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste.

12.12 | 12.12 | 0.000 | LD | leR

PRODUCT DATA SHEET

Rapid Drying 2-Component Smoothing Compound

UZIN L 3 Gold Moisture Control

Two component smoothing compound for use in areas of high moisture

Description:

An ammonia and latex free levelling compound suitable for the smoothing and levelling of all types of cementitious substrate can be applied over most sound and well-bonded adhesive and latex residues.

Especially suitable for:

- The repair and renovation of uneven subfloors
- For use as a system component in fast track construction and renovation
- For use in sensitive environments, such as schools and hospitals
- Warm water underfloor heating systems
- Sure to castor wheels in accordance with DIN EN 12 529

Product Properties / Benefits:

A two component specially modified levelling compound, rapid setting and drying with a variable liquid content to aid levelling properties. Specially developed to improve L 3 Gold in areas of high moisture.

C25
DIN EN 13 813
F7

- For use in areas of high moisture
- Ammonia and latex free
- Suitable for thickness from 3 – 20 mm
- Variable consistency
- Excellent adhesion and bond strength
- Ready for floor covering in approx 2 hours
- Very low stress
- Absorbent providing a good key for adhesives

Technical Data:

Packaging:	paper sack and plastic can
Size:	sack: 22 kg / can: 5.1 l
Shelf life:	12 months
Colour:	powder: grey liquid: white
Consumption:	approx. 1.5 kg/m² per mm of thickness
Coverage:	approx. 15 m² per mixed unit at 1 mm
Working temperature:	min 5 °C at floor level and 18 °C – 25 °C air
Working time:	20 minutes*
Set to light traffic:	after 1 hour
Ready for some floorcovering:	2 hours* (for 3 – 5 mm)

* Under normal conditions at 20 °C per mm thickness and an undiluted mix; on a clean, dry, cementitious substrate. The addition of any extra liquid will extend the drying times.

UZIN | A Brand of Uzin Utz AG

NZ | Ufloor-Systems NZ Ltd. | PO Box 426 | 5 Clayden Dr. | Gulf Harbour | Whangaparaoa 0943 | New Zealand | Telephone +64 9 424 0366 | Telefax +64 9 428 1643
E-mail ufloor-systems@xtra.co.nz | Internet www.uzin.co.nz

UZIN L 3 Gold Moisture Control

Subfloor Preparation:

The substrate must be sound, dry, free from cracks, clean and free from materials which would impair adhesion.

Flow screeds must be abraded and vacuumed either as a secondary treatment by the screed installer or as a special responsibility of the covering installer. Test the substrate according to applicable standards and report any deficiencies.

Brush, abrade, grind or shot-blast any weak surface sections or areas that do not accept adhesion. Thoroughly vacuum to remove dust. If the RH levels are above 90 % please contact UZIN Technical. Test any adhesive residues first to ensure they are not water-soluble. If soluble adhesives are found call Uzin technical dept for advice. Before application of the smoothing compound the area must be primed with L 3 Gold System Primer.

Application:

1. Before application of the smoothing compound the area must be primed with L 3 Gold System Primer.
2. Pour liquid into a clean bucket. Sprinkle in the sack contents (22 kg) whilst stirring briskly and mix to lump-free consistency. Use a drill or mixer fitted with a Uzin Mixing Paddle to ease the mixing process.
3. Once product is fully mixed it can be applied over the floor using a steel trowel at depths from 3 mm to 5 mm, if deeper, UZIN L 3 Gold Moisture Control can be bulked out using sand up to a maximum of 12.5 kg of sand per mixed unit of UZIN L 3 Gold Moisture Control, or, can be applied in multiple coats (no requirement for a primer between coats). If greater flow is required, once mixed, additional liquid L 3 Gold Moisture Control (component A) up to a total of maximal 0,25 lts can be added. The addition of this liquid will affect the drying times of the UZIN L 3 Gold Moisture Control. Making the UZIN L 3 Gold Moisture Control more fluid does not increase the coverage of this leveller.
4. Drying time at 20 °C per mm is approximately 1 hour to accept light foot traffic, and 2 hours to take most floor coverings. This is for an undiluted mix; on a clean, dry, cementitious substrate. The addition of any extra liquid will extend the drying times. Poor airflow and lower temperatures will significantly affect drying times. Light abrading once dry will improve the surface quality and absorbance of the adhesive.

Consumption:

Thickness	Consumption	Coverage
3 mm	4.5 kg/mm	5 m²
4 mm	6.0 kg/mm	3.6 m²

Important Notes:

- Minimum shelf-life 6 months in original packaging and in cool and dry storage conditions. Tightly seal opened packaging and use the contents as quickly as possible.
- Best applied at 20 °C and 65 % relative humidity. Low temperatures delay setting and drying, high temperatures shorten the working time. High humidity delays drying and readiness for covering.
- The following standards and notices are applicable and especially recommended AS/NZS 2455.1:2007, AS 1884-20012, BS 8203, BS 8204, BS 5325, and DIN 18 365.
- Under wood flooring, the minimum layer thickness is 3 mm.
- Minimum 3 mm thickness for resistance to castor wheels. On non-absorbent surfaces, such as e.g. old screeds with a full cover of old, waterproof adhesive, apply 3 mm.
- Expansion, movement and wall connection joints resulting from the substrate must be taken up. As required, fit UZIN expansion strips against adjacent structures to prevent ingress of the compound into connection joints. For thickness above 5 mm, expansion strips should be used

Protection of the Workplace and the Environment:

Liquid component:
Solvent-free. Non-flammable. Requires no special protection or precautions in general use. Use of barrier cream and ventilation of the work area are recommended.

Powder component:
Contains cement low in chromate acc. Directive 2003/53/EC. Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse immediately with water. In the event of skin or eye irritation, seek medical advice. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured.
Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Liquid component: Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste, those with cured residues are Construction Waste. Powder component: Empty paper bags are recyclable. Collect waste material, mix both components and allow to harden, then dispose as Construction Waste.

01.13 | 01.13 | 0.000 | LD | leR

NOTES

www.giltedge.co.nz
EMAIL: help@giltedge.co.nz
FREE PHONE: 0800 445 833
FREE FAX: 0800 103 649