

2-Component Repair Resin

UZIN KR 516

Low-odour resin for the quick restoration of cracks as well as bonding, filling and repairs

Applications:

Versatile 2-component resin for repairing cracks and joints but equally suitable for bonding, filling and repairing mineral-based substrates. It hardens particularly quickly and after 45 minutes it is firm enough to allow levelling or bonding work. For interior or exterior use.

Suitable for:

- ▶ sealing narrow and wide joints and cracks in screeds and concrete
- ▶ bonding of angle rails, nailboards, profiles and rods from metal, wood or plastic, or similar
- ▶ repairs on concrete, ceramics, stone, or similar
- ▶ use as installation and repair resin in building construction
- ▶ high traffic in residential and industrial areas, e.g. in office buildings, hospitals, etc.
- ▶ hot water underfloor heating
- ▶ traffic from chair castors as per DIN EN 12 529

Product benefits / features:

The solvent-free silicate resin can be mixed by simply shaking it and is ready for use after 15 seconds. The consistency can be chosen from thin (2 minutes) to highly viscous (6 minutes) depending on the setting time. Many different applications are possible and small amounts can be used for minor repairs. UZIN KR 516 has very low odour during and after application, therefore it can be applied during ongoing operations. Screed insulating layers or expansion strips are not adversely affected by UZIN KR 516.



Composition:

Component A: sodium silicate
Component B: MDI isocyanate

- ▶ Low odour
- ▶ Extremely fast setting
- ▶ Small amounts can be mixed
- ▶ No stirring tools required
- ▶ Adjustable consistency
- ▶ Solvent-free
- ▶ EMICODE EC 1 R PLUS/Very low emission

Technical data:

Packaging:	Plastic bottles in carton including corrugated links
Pack size:	2 x 300 ml
Shelf life:	min. 12 months
Colour comp. A:	transparent
Colour comp. B:	brownish
Colour mixed:	yellowish
Consumption / coverage:	approx. 100 ml / running metre on narrow screed cracks, otherwise according to joint width / depth
Working temperature:	min. 10 °C at ground level
Ideal working temperature:	15 – 20 °C at ground level
Processing time of bottle:	6 – 8 minutes*
Working time:	10 – 12 minutes*
Ready for foot traffic / smoothing over:	after 45 minutes*
Final strength:	after approx. 24 hours*

* At 20 °C and 65 % relative humidity.



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Substrate preparation:

The substrate or the surface of the parts to be bonded must be sound, load-bearing, dry, clean and free from materials (dirt, oil, grease), that would impair adhesion. Carefully clean or degrease dense or smooth surfaces, e.g. metals or plastics; grinding out is recommended. Remove adhesion-reducing or unstable layers, e.g. release agents, loose screed residues, or similar, e.g. by chiselling off, sanding or cutting. Thoroughly vacuum off loose material and dust. Best adhesion is achieved on coarse, mineral-based substrates. Perform a trial bonding test on metals and plastics.

Otherwise, use an angle grinder to perform a 25 cm cut perpendicular to the running direction and, if necessary, lengthwise; cutting depth approx. half the screed thickness but at least one third. Do not damage heating elements of underfloor heating. Vacuum the cuts with a powerful vacuum cleaner, then insert UZIN corrugated links.

Refer to the product data sheets for other products used.

Application:

1. Pour bottle of component A into the bottle of component B and close it. Shake vigorously for 15 seconds.
2. The mixed material does not harden suddenly but continuously. For fluid usage apply within 4 minutes. For wide joints or bonding work allow the material to become slightly thicker, e.g. wait another 3 minutes and then process quickly. Note short processing time.
3. The material can be extended with quartz sand, e.g. UZIN Fine Sand.
4. Introduce UZIN Fine Sand into the resin while still damp to achieve a good bond with subsequent materials. Vacuum off loose sand after setting.
5. Clean tools immediately after use with UZIN Clean-Box sheets.

Consumption information:

For substrates with a crack width of 4 mm and a crack depth of 25 mm the consumption is 100 ml /metre of crack. The common coverage for cementitious screed crack resin treatment in new constructions with the above mentioned crack cross-section is therefore approx. 6 linear metres per bottle pair with 2 x 300 ml.

Application sample:



Simply expand screed cracks, joints and set cross-sections with little dust, using the Scred Joint Cutter from Wolff Tools.



Following the cutting, vacuuming and insertion of the corrugated links, UZIN KR 516 is precisely applied into the joint.



Smoothed UZIN KR 516 must be sanded with UZIN Fine Sand while fresh.

Important notes:

- ▶ Shelf life at least 12 months in original packaging when stored in moderately dry and cool conditions. Do not store below +10 °C. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum processing at 15 – 20 °C and relative humidity below 65 %. Low temperatures extend the working time and delay setting and finishing work. High temperatures shorten the working time and accelerate setting and finishing work. Warm material to room temperature in winter in due time.
- ▶ Do not use in direct sunlight outside since the material will turn yellowish.
- ▶ Caution: Material may warm up strongly in the container after mixing. Do not leave unattended therefore and place outside, if necessary.
- ▶ Close cracks and joints in screed only after the screed has reached its readiness for covering, i.e. the permissible max. residual moisture and further development of shrinkage cracks are not to be expected.
- ▶ For substrates with underfloor heating care must be taken not to damage the heating elements when cutting.
- ▶ UZIN corrugated links are included with each carton for the restoration of cracks; they are also separately available in the UZIN product offering. 20 corrugated links are included with each bottle pair.
- ▶ Follow the generally acknowledged rules of the trade and technology for the installation of floor covering or wood flooring of the respective applicable national 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"
 - DIN 18 352 "Tile and natural stone work"
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
 - BEB publication "Assessment and preparation of substrates"
 - Bulletin of the Federal Association for Area Heating and Cooling, Inc. "Interface coordination for heated underfloor constructions"

Protection of the workplace and the environment:

Solvent-free. Non-flammable.

Comp. A: Causes skin irritation. Causes serious eye irritation.

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, 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.

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. 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.