

Cementitious premium levelling compound

# UZIN NC 170 LevelStar / 20 kg

Self smoothing compound with high load-capacity for all floor coverings and wood flooring

**MAIN APPLICATION FIELD:**

- ▶ smoothing and levelling of substrates for the subsequent installation of all types of floor coverings

**SUITABLE ON / FOR:**

- ▶ calcium sulphate or cementitious screeds, concrete
- ▶ old screeds or concrete, which may contain old compounds and adhesive residues
- ▶ existing and new P4 - P7 or OSB 2 - OSB 4 boards, screwed
- ▶ existing ceramic and natural stone coverings, terrazzo or similar
- ▶ magnesia and xylolite screeds
- ▶ precast screeds, screed boards
- ▶ warm water underfloor heating systems
- ▶ exposure to castor wheels in accordance with DIN EN 12 529 from 1 mm thickness
- ▶ suitable for residential, commercial and industrial areas, e.g. hospitals, busy shopping malls, industrial areas, etc.



**PRODUCT BENEFITS/FEATURES:**

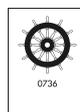
UZIN NC 170 LevelStar is a high-performance smoothing and levelling compound with excellent flow properties. It is fast drying, even with unfavourable climatic conditions. Many types of floor coverings can be installed after 6 hours\*. Offers a fast and secure installation. For interior use.

- ▶ excellent flow characteristics
- ▶ ready to accept floor coverings after 6 hours\*
- ▶ very high strength
- ▶ very smooth surface

**TECHNICAL DATA:**

Compressive strength	C 40
Flexural strength	F 7
Packaging	paper bag, big bag (on request)
Pack size	20 kg
Shelf life	min. 12 months
Water quantity	approx. 5.2 litres per 20 kg bag
Colour	grey
Consumption	approx. 1.5 kg/m <sup>2</sup> /mm thickness
Ideal application temperature	15 - 25 °C
Working time	20 - 30 minutes*
Ready for foot traffic	after 1.5 - 2 hours*
Ready for covering	after approx. 6 hours*
Minimum application temperature	10 °C at ground level
Flow ring spread	approx. 151 mm ± 5 mm
Fire reaction	A2 <sub>s1</sub> -1 acc. to DIN EN 13 501-1

\*At 20 °C and 65% relative humidity and max. thickness of 5 mm. See "Ready for covering".



## SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks and free from materials (dirt, oil, grease) that would impair adhesion. Cement and calcium sulphate screeds must be abraded and vacuumed. Test the substrate in accordance with applicable standard or notices 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 loose material and dust. Use a suitable primer from the UZIN Product Guide according to the type and condition of the substrate. Allow any primer that is applied to dry completely.

The datasheets for other used products have to be observed.

## APPLICATION:

1. Pour approx. 4.75 - 5.25 litres of cold, clear water into a clean container. Sprinkle in the contents of the bag (20 kg) while mixing vigorously until a smooth and lump-free compound is obtained. Use a mixing device fitted with a UZIN Mixing Paddle.
2. Pour the compound onto the substrate and spread evenly with a smoothing trowel or a screed rake. The flow and surface can be improved by removing air using a spike roller. If possible, apply to the desired thickness in one coat.

## CONSUMPTION INFORMATION:

Layer Thickness	Approx. Consumption	Size / Coverage
1 mm	1.5 kg/m <sup>2</sup>	20 kg / 13.3 m <sup>2</sup>
3 mm	4.5 kg/m <sup>2</sup>	20 kg / 4.4 m <sup>2</sup>
10 mm	15.0 kg/m <sup>2</sup>	20 kg / 1.3 m <sup>2</sup>

## EXTENSION:

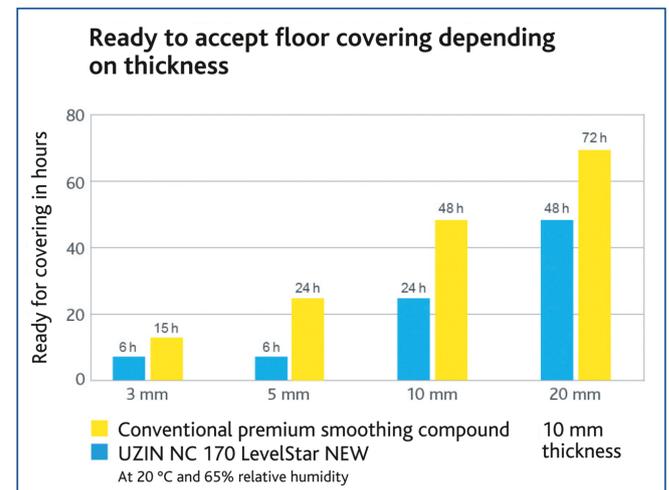
Layer Thickness	Ideal additive amount
20 - 50 mm	30% quartz sand 0.8 (6.0 kg sand / 20 kg powder)

Depending on the type of sand and the thickness, the water amount may be adapted.

## READY FOR COVERING:

Planned Top Layer	Layer Thickness	Ready for Covering
Textile and resilient floor coverings (e.g. PVC, linoleum, rubber), ceramic tiles and natural stone	3 mm	approx. 6 hours*
	5 mm	approx. 6 hours*
	10 mm	approx. 24 hours*
	20 mm	approx. 48 hours*
Textile and resilient floor coverings with Sigan 1 or Sigan Elements Plus + Planus	3 mm	apply Planus soonest after 12 hours*
	5 mm	apply Planus soonest after 12 hours*
Wood flooring / UZIN KE 68	3 mm	approx. 15 hours*
	5 mm	approx. 15 hours*
	10 mm	approx. 24 hours*
	20 mm	approx. 72 hours*
Textile and resilient floor coverings	3 mm	approx. 15 hours**

\*Ready for covering: At 20 °C and 65% relative humidity.  
\*\*At 10 °C and 80% relative humidity.



## IMPORTANT NOTES:

- ▶ A shelf life of 12 months when stored in dry conditions, in the original packaging. The setting and drying times may become longer if the storage time is prolonged. The properties of the cured material are not affected. Carefully and tightly reseal opened packaging and use the contents as quickly as possible.
- ▶ Best applied between 15 - 25 °C and relative humidity below 65%. Low temperatures, high humidity, little air circulation, dense substrates and large thickness will delay the setting and drying time. Whilst high temperatures and low humidity, strong air circulation and absorbent substrates will 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 adjacent, vertical structures to prevent the ingress of the compound into the joints.

- ▶ Can be pumped with continuous, forced-action mixer-pumps, e.g. from manufacturers such as m-tec, P.F.T. and others.
- ▶ The substructure of wooden floors must be dry to prevent damage due to damp through rotting or mould formation. Adequate ventilation or rear-ventilation must be provided especially when installing impermeable flooring, e.g. by removing the existing expansion strip or by installing special skirting with vent openings.
- ▶ Minimum thickness for resistance of castors is 1 mm. On non-absorbent substrates such as old screeds with closed, fixed, waterproof adhesive residues, a thickness of 2 - 3 mm must be used.
- ▶ When applying in several coats, allow the compound to dry completely. Then apply UZIN PE 520 as a intermediate primer and leave to dry, before applying subsequent coats.
- ▶ The minimum thickness below wood flooring is 2 mm. Pay particular attention to a sufficient drying of the levelling compound prior to installation of wood flooring.
- ▶ For thicknesses above 10 mm and on moisture-sensitive substrates, use epoxy primers, such as UZIN PE 460, gritted.
- ▶ For new mastic asphalt screeds thicknesses up to max. 5 mm and for older mastic asphalt screeds, with old layers attached, thicknesses up to max. 3 mm are permissible.
- ▶ The maximum thickness on OSB and chipboards is 3 mm.
- ▶ Do not use in exterior or wet areas.
- ▶ Protect freshly applied areas from draughts, direct sunlight and sources of heat. Cement-based compounds tend to form cracks on soft or tacky substrates. These soft and tacky layers must therefore be removed as much as possible before applying the compound. Leaving such compound layers open more than 4 weeks under standard climate conditions (20 °C and 65% relative humidity) tends to propagate stress cracks and must therefore be avoided.
- ▶ Do not use as a screed or as a wear surface, a surface covering must always be applied.
- ▶ UZIN NC 170 LevelStar has the approval as shipbuilding equipment product by the maritime occupational association "See-Berufsgenossenschaft Hamburg", module B and module D. Certificates are available upon request. The permissible thickness is 20 mm. USCG-No. for the system is 164.106/EC0736/113.113.
- ▶ Compounds must not enter between insulation and heating pipes because of the risk of corrosion. This applies in particular for heating pipes made from galvanized steel. Insulation may only be cut off after smoothing.
- ▶ Follow the generally acknowledged rules of the trade and technology for the installation of wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.)
- ▶ For deep filling over 20mm, seek technical guidance regarding procedures and aggregates from the manufacturer.

## SEALS OF QUALITY & ECOLABELS:

- ▶ Low chromate content acc. Regulation (EC) No. 1907/2006 (REACH)
- ▶ EMICODE EC 1 PLUS / Very low-emission
- ▶ DE-UZ 113 / Environmentally friendly because of low emissions

## COMPOSITION:

Special cements, mineral aggregates, redispersible polymers and additives.

## PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

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. Use protective gloves. When mixing wear a protective dust-mask. 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 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.