

Moisture-tolerant, commercial cement levelling compound

UZIN NC 161

Self-levelling floor smoothing compound on all standard building substrates and in MT systems on damp, cementitious substrates for layer thicknesses from 3 - 20 mm

MAIN APPLICATION FIELD:

- ▶ smoothing and levelling of cementitious, humid substrates containing residual and rising moisture for the subsequent installation of moisture-tolerant textile and resilient floor coverings
- ▶ smoothing and levelling in cementitious, (permanently) wet areas, e.g. interior substrates in wet- and permanently wet areas
- ▶ smoothing and levelling of cementitious, humid substrates below moisture barrier primers, e.g. UZIN PE 460, UZIN PE 480 or UZIN PE 414 BiTurbo

SUITABLE ON / FOR:

- ▶ cementitious screeds containing moisture or concrete without standing water
- ▶ calcium sulphate screeds
- ▶ existing ceramic and natural stone coverings, terrazzo or similar
- ▶ existing and new IC 10 and IC 15 mastic asphalt screeds
- ▶ magnesite 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 and commercial areas, e.g. office buildings, house building, etc.



CE	
0761	
Uzin Utz SE Dieselstrasse 3 89079 Ulm	
22	
01/01/0097.01	
EN 13813:2002	
Cementitious levelling compound for substrates in interior locations	
EN 13813: CT-C30-F7	
Reaction to fire	A1fl
Release of corrosive substances	CT
Compressive strength	C30
Flexural strength	F7

PRODUCT BENEFITS/FEATURES:

UZIN NC 161 is a smoothing compound specially designed for cementitious substrates with residual and rising moisture or for wet areas. For the subsequent installation of suitable alkali- and moisture tolerant floor coverings. Moisture rating of the substrate is not required. Can be pumped, for interior use.

- ▶ no limitation on pH and RH % values
- ▶ resistant against alkaline moisture
- ▶ good flow characteristics
- ▶ good absorbency

TECHNICAL DATA:

Packaging	paper bag, Big Bag (on request)
Pack size	20 kg, 1000 kg
Shelf life	min. 9 months
Water quantity	approx. 4 litres per 20 kg bag
Color	grey
Consumption	approx. 1.5 kg/m ² /mm thickness
Ideal application temperature	15 - 25 °C
Working time	30 - 40 minutes*
Ready for foot traffic	after 3 hours*
Ready for covering	see "Ready for covering"
Minimum application temperature	5 °C at ground level
Flow spread ring	approx. 140 mm ± 5 mm
Fire reaction	A1fl-s1 acc. to DIN EN 13 501-1

*At 20 °C and 65% relative humidity.



EXTENDED APPLICATIONS:

- ▶ smoothing and levelling of cementitious, humid substrates for the subsequent installation of damp-open sealers, e.g. UZIN EP 20 or UZIN EP 21.

SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, surface 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 - on damp and residual moisture, cementitious substrates use UZIN PE 360 PLUS. Allow any primer that is applied to dry completely.

The datasheets for other used products have to be observed.

APPLICATION:

1. Put approx. 4 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.

READY FOR COVERING:

Planned Top Layer	Layer Thickness	Ready for Covering
Suitable alkaline and moisture tolerant floor coverings	3 - 5 mm	approx. 24 hours*
	up to 10 mm	approx. 48 hours*
	up to 20 mm	approx. 96 hours*
UZIN EP 20 / UZIN EP 21	3 - 10 mm	approx. 24 hours*
	up to 20 mm	approx. 48 hours*
Application of a moisture barrier, e.g. UZIN PE 460	3 - 5 mm	approx. 24 hours*
	up to 10 mm	approx. 48 hours*
	up to 20 mm	approx. 96 hours*

*At 20 °C and 65% relative humidity.

High Moisture Installations:

- ▶ When used on moist substrates, all used products must be tolerant to alkaline moisture or be open to vapour diffusion. When using products and floor coverings, which are not resistant to alkaline moisture, a moisture-barrier primer such as UZIN PE 480, UZIN PE 460 or UZIN PE 414 BiTurbo must be used. These can be used directly on UZIN NC 161.
- ▶ Concrete must be a minimum of 28 days old. In areas where rising moisture leads to hydrostatic pressure, a intact moisture vapor barrier beneath the slab must be known.
- ▶ Concrete slab or cementitious subfloors must be at service temperature, and occupied air space above the slab must be at service temperature and service relative humidity, at time of installation.
- ▶ UZIN NC 161 does not create a moisture barrier and therefore does not protect the floor covering from substrate moisture.
- ▶ Always follow floor covering manufacturer's guidelines for maximum RH- and pH-values of the floor covering as well as intended use of the product.

IMPORTANT NOTES:

- ▶ Acclimate the installation area, adhesive and flooring in an enclosed building at a minimum of 18°C for at least 72 hours before, during and for 72 hours after installation. Relative humidity of air within the space should not exceed 65% for 72 hours following the installation.
- ▶ A shelf life of 9 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.
- ▶ When applying in several coats, allow the compound to dry completely. Then apply UZIN PE 360 PLUS as a intermediate primer and leave to dry, before applying subsequent coats.
- ▶ 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.
- ▶ Do not use in exterior 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 compounds open for too long also promotes such cracking and should therefore be avoided.
- ▶ Do not use as a screed or as a wear surface, a surface covering must always be applied.
- ▶ 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).

SEALS OF QUALITY & ECOLABELS:

- ▶ Low chromate content acc. Regulation (EC) No. 1907/2006 (REACH)
- ▶ EMICODE EC 1 PLUS / Very low-emission
- ▶ Blue Angel according to DE-UZ 113 / Environmentally friendly because of low emissions
- ▶ European Model EPD
- ▶ Suitable for sustainable building certifications according to: DGNB, QNG, BNB, BREEAM, LEED

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). Keep out of reach of children! Keep children away from fresh product / installation material. Store in a dry and cool place. Once opened, immediately close packaging tightly. Wear nitrile impregnated cotton-gloves and long trousers. During mixing wear a suitable dust-mask and goggles. 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. In case of eye contact, wash immediately with plenty of water and seek medical attention. Avoid prolonged skin contact with the product. After skin contact thoroughly rinse with water immediately. The longer the freshly mixed product remains on the skin, the greater the risk of serious skin damage. 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 underlayment, primer and smoothing compound. For allergy information, call +49 731 4097-0 (Germany).

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.