Product Datasheet

Industrial Top

UZIN NC 770

Self-leveling, directly usable mineral coating for creation of bonded substrates with thicknesses from 3 to 50 mm

MAIN APPLICATION FIELD:

- smoothing and levelling of substrates to produce a wear resistant finish in areas with high exposure
- smoothing and levelling of substrates for the subsequent installation of floor coverings or resin coatings
- thicknesses from 3 to 50 mm
- AR0.5 abrasion resistance less than 1 mm impact test

SUITABLE ON / FOR:

- calcium sulphate or cementitious screeds, concrete
- substrates with surface tensile strength of min. 1.5 N/mm² or 1.0 N/mm² without drive-on traffic
- 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 commercial and industrial areas

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Uzin Utz SE Dieselstrasse 3 89079 Ulm	
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EN 13813:2002	
Cementitious levelling compound for substrates in interior locations	
EN 13813: CT-C35-F7-AR0,5	
Reaction to fire	A1fl
Release of corrosive substances	CT
Compressive strength	C35
Flexural strength	F7
Wear resistance BCA	AR0,5

PRODUCT BENEFITS/FEATURES:

UZIN NC 770 is a cement based, self-levelling topcoat for producing a wear-resistant floor finish where surface appearance is a secondary consideration. It can also be used as an industrial levelling compound for resin coatings and most floor coverings. Pumpable, for interior use.

- excellent abrasion resistance
- good flow characteristics
- low stress
- good absorbency
- resistant against oil, fuel, moisture and de-icing salt

TECHNICAL DATA:

Packaging	paper bag, Big Bag (on request)
Pack size	25 kg, 1000 kg
Shelf life	min. 9 months
Water quantity	4.25 - 4.5 litres per 25 kg bag
Color	grey
Consumption	approx. 1.7 kg/m²/mm thickness
Ideal application temperature	15 - 25 °C at ground level
Working time	20 - 30 minutes*
Ready for foot traffic	after 2 - 4 hours*
Ready for covering	after approx. 24 hours*
Minimum application temperature	10 °C at ground level
Loadable	after 3 days*
Flow spread ring	approx. 140 mm ± 5 mm
Abrasion resistance	AR0.5 according DIN EN 13813
Fire reaction	$A1_{fl}$ according DIN EN 15501-1

*At 20 °C and 65% relative humidity and max. thickness of 3 mm.

GEV-EMICODE EC 1 PLUS very low emission · RAKENNUSTIETO · EMISSION CLASSIFICATION M1 · EPD · LEED® CONTRIBUTING PRODUCT

UZIN | A brand of UZIN UTZ
DE | Uzin Utz SE | Dieselstrasse 3 | 89079 Ulm | Telephone +49 731 4097-0 | Fax +49 731 4097-110 | E-Mail info@uzin.de | Internet www.uzin.de

UZIN NC 770

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, as well as the applied layer thickness of the industrial top. Allow any primer that is applied to dry completely.

The datasheets for other used products have to be observed.

APPLICATION:

1. Put 4.25 - 4.5 litres of cold, clear water into a clean container. Sprinkle in the contents of the bag (25 kg) while mixing vigorously until a smooth and lump-free compound is obtained. Use a mixing device fitted with a UZIN Mixing Paddle. Always use the same amount of mixing water to avoid colour differences.
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, at least 3 mm.

SURFACE TREATMENT:

UZIN NC 770 has a porous surface and is susceptible to potential staining and contamination if left uncoated. It is recommended to seal the dry surface with a suitable sealer.

Due to variations in naturally occuring materials, tones and shading can vary significantly. During drying, cracks may appear in the compound. No guarantee can be made of the ultimate aesthetic appearance of the finished floor.

Furthermore foot-wiping areas and protective polycarbonate mats are recommended in areas exposed to chair castors.

CONSUMPTION INFORMATION:

Layer Thickness	Approx. Consumption	Size / Coverage
3 mm	5.1 kg/m²	25 kg / 4.9 m²
5 mm	8.5 kg/m²	25 kg / 3.0 m²
10 mm	17.0 kg/m²	25 kg / 1.5 m²

Ready to accept coatings: after 36 - 72 hours

COATABLE:

thickness	coatable
up to 50 mm	after 36 to 72 hours*

*At 20 °C and 65% relative humidity.

IMPORTANT NOTES:

- 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.
- For thicknesses over 5 mm foam expansion strips are necessary in general. On wooden substrates the foam expansion strip must be removed completely after installation.
- 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.
- 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 thicknesses above 30 mm and on moisture-sensitive substrates, use epoxy primers, such as UZIN PE 460, gritted.
- All cementitious compounds can be susceptible to micro cracking during the curing process. To keep micro cracks to a minimum, the compound can be coated with a suitable product earliest after 36, latest up to 72 hours after installation.
- Please note that UZIN NC 770 has a porous surface and is susceptible to potential staining and contamination if left uncoated.
- 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 compounds open for too long also promotes such cracking and should therefore be avoided.
- Fluctuating water quantities lead to considerable differences in the appearance of the surface. Therefore, the water amount should always be the same on continuous areas. This can be achieved by weighing the mixing water or by using the Wolff water proportioner.
- 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.

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- 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
- European Model EPD
- Suitable for sustainable building certifications according to: DGNB, QNG, BNB, BREEAM, LEED

COMPOSITION:

Special cements, mineral aggregates, redispersible polymers, high-performance liquefiers 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. 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. Odourless in the cured and dry state.

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.

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