Product Datasheet

Premium Industrial Top

UZIN NC 780

Self smoothing, directly usable mineral coating for creation of bonded substrates with thicknesses from 4 to 10 mm

MAIN APPLICATION FIELD:

- creation of a highly wear-resistant floor finish for areas with extreme exposure
- creation of a sealable surface without optical requirements for the processing of Epoxy or PUR coatings
- for thicknesses from 4 to 10 mm

SUITABLE ON / FOR:

- calcium sulphate or cementitious screeds, concrete
- magnesia screeds
- substrates with surface tensile strength of min. 1.5 N/mm² or 1.0 N/mm² without drive-on traffic
- areas with very heavy vehicle traffic
- exposure to castor wheels in accordance with DIN EN 12 529
- very high wear in commercial and industrial locations, e.g. industrial halls, warehouses

CE

0761	
Uzin Utz SE Dieselstrasse 3 89079 Ulm	
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01/01/0082.01	
EN 13813:2002	
Cementitious levelling compound for substrates in interior locations	
EN 13813: CT-C40-F7-A6	
Reaction to fire	A2fl-s1
Release of corrosive substances	CT
Compressive strength	C40
Flexural strength	F7
Wear resistance	A6

PRODUCT BENEFITS/FEATURES:

UZIN NC 780 is high strength yet low stress with extremely good flow properties. It produces a highly wear-resistant floor finish with good slip resistance within industrial areas subject to heavy vehicle traffic. Pumpable, for interior use.

- heavy duty mineral topcoat
- low stress
- high abrasion resistance
- resistant against oil, fuel, moisture and de-icing salt

TECHNICAL DATA:

Packaging	paper bag
Pack size	20 kg
Shelf life	min. 9 months
Water quantity	3.8 - 4.0 litres per 20 kg bag
Color	grey
Consumption	approx. 1.7 kg/m² per mm thickness
Working time	max. 40 minutes*
Ready for foot traffic	after approx. 4 hours*
Minimum application temperature	10 °C at ground level
Loadable	after 3 days*
Flow spread ring	approx. 135 mm ± 5 mm
Abrasion resistance	A6 according to DIN 13 813
Slip resistance	R11 according to DIN 51 130
Fire reaction	$A2_{fl}$-s1 according to DIN EN 13 501-1

*At 20 °C and 65% relative humidity, with 18 °C substrate temperature.

GEV-EMICODE EC 1 PLUS very low emission

EPD

LEED® CONTRIBUTING PRODUCT

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UZIN NC 780

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. Put 3.8 - 4.0 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. 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. To avoid rake marks, it is recommended to trowel the surface with a smooth rake in the end.

SURFACE TREATMENT:

UZIN NC 780 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. 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
4 mm	6.8 kg/m²	20 kg / 3.0 m²
10 mm	17 kg/m²	20 kg / 1.2 m²

COATABLE:

thickness	coatable
up to 10 mm	after 24 to 48 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 must be coated with a suitable product earliest after 24, latest up to 48 hours after installation.
- 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.

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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