Product Datasheet

FusionTec bonded thick layer levelling compound

UZIN NC 587

Self-levelling, low tension thick layer levelling compound, which is extremely quickly ready for covering, for producing bonded substrates for layer thicknesses of 3 to 50 mm

MAIN APPLICATION FIELD:

- For the installation of extremly fast ready for covering, low-stress, bonded substrates for the subsequent installation of textile and resilient floor coverings (levelling may be required), ceramics, natural stone as well as wood flooring.
- For thicknesses from 3 to 50 mm.

SUITABLE ON / FOR:

- calcium sulphate or cementitious screeds or concrete
- magnesia and xylolite screeds
- old screeds or concrete, which may contain old compounds and water-proof adhesive residues
- existing ceramic and natural stone coverings, terrazzo or similar
- new, sanded IC 10 and IC 15 mastic asphalt screeds up to max. 5 mm thickness
- embedding of thin underfloor heating systems
- embedding of heating systems with electr. surface heating conductors
- exposure to castor wheels in accordance with DIN EN 12 529
- suitable for residential and commercial areas

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Uzin Utz SE Dieselstrasse 3 89079 Ulm	
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EN 13813:2002	
Calcium sulphate levelling compound for substrates in interior locations	
EN 13813: CA-C40-F10	
Reaction to fire	A1fl
Release of corrosive substances	CA
pH	>7
Compressive strength	C40
Flexural strength	F10

PRODUCT BENEFITS/FEATURES:

Extremely fast, self-levelling thick levelling compound for the installation of low tension, bonded subfloors with good absorbency. For floor covering and wood flooring work as well as for the installation of tiles and natural stones. Pumpable, for interior use.

- Extremely fast ready for covering in 48 hours up to 50 mm layer thickness*
- Quickly ready for covering even under unfavourable climatic conditions
- Especially for large-areas with pumping applications in high thicknesses
- low tension

TECHNICAL DATA:

Packaging	paper bag, Big Bag (on request)
Pack size	20 kg, 1000 kg
Shelf life	min. 9 months
Water quantity	3.4 litre / 20 kg bag
Color	lightgrey / beige
Consumption	approx. 1,8 kg/m²/mm thickness
Working time	approx. 40 minutes*
Ready for foot traffic	after 2-3 hours*
Ready for covering	after approx. 48 hours*
Minimum application temperature	10 °C at ground level
Flow spread ring	140 mm ± 5 mm
Thermal conductivity	1,4 W/mK
Fire reaction	$A1_{fl}$ according to DIN EN 13 501-1

*At 20°C and 65% relative humidity.

GEV-EMICODE EC 1 PLUS very low emission

BLUE ANGEL FOR GERMAN ECOLABEL www.blauer-engel.de/uz113

EPD

LEED® CONTRIBUTING PRODUCT

UZIN NC 587

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. Possible deformations in the substrate should be inhibited as far as possible.

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:

- Put 3.4 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.
- 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
3 mm	5.4 kg/m²	20 kg / 3.7 m²
10 mm	18.0 kg/m²	20 kg / 1.1 m²

READY FOR COVERING:

Planned Top Layer	Layer Thickness	Ready for Covering
Textile and resilient floor coverings	3 - 10 mm	approx. 20 hours*
	10 - 50 mm	approx. 48 hours*
Wood flooring	up to 50 mm	approx. 48 hours*
Arturo reactive resin coatings	up to 50 mm	approx. 48 hours*
Ceramics and natural stone	up to 50 mm	approx. 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 75%. 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 e.g. UZIN PE 360 PLUS as a intermediate primer and leave to dry, before applying subsequent coats.
- For thicknesses above 10 mm and on moisture-sensitive substrates, use epoxy primers, such as UZIN PE 460, gritted.
- 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.
- Grinding FusionTec thick layer levelling compounds creates very fine micro-dust. Vacuuming with a powerful industrial vacuum cleaner is mandatory to create a good bond between the compound, adhesive and floor covering.
- Do not use outdoors or in wet areas.
- 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:

- Levelling compound on calcium sulphate base, highly alkaline
- 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 binders, mineral aggregates, special cements, redispersible polymers, high-performance liquefiers and additives.

This product is intended exclusively for professional use by qualified commercial users. It must not be supplied to consumers. The above information is based on our experience and careful investigations. The variety of associated materials and different constructions and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the floor covering manufacturer. The publication of this Product Data Sheet invalidates all previous product information. The respective updated version of this datasheet can be found on our website under www.uzin.com | 09/2026

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Gypsum levelling compound, highly alkaline. 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. Give only empty bags to recycling. Dried product residues may be disposed of as Construction waste. For allergy information, call +49 731 40970 (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.

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