

Quick Drying FusionTec Smoothing Compound

UZIN NC 570

Quick drying, low stress smoothing compound for all types of floor coverings

MAIN APPLICATION FIELD:

- ▶ smoothing and levelling over unstable, old or mixed substrates in the renovation sector for the subsequent installation of any floor covering.
- ▶ smoothing and levelling of substrates in the commercial sector with long working time - especially suitable for pump construction sites.
- ▶ For thicknesses from 1 to 20 mm.

SUITABLE ON / FOR:

- ▶ calcium sulphate or cementitious screeds, concrete
- ▶ old screeds or concrete, which may contain old compounds and adhesive residues
- ▶ existing and new flooring grade plywood, P4 - P7 or OSB 2 - OSB 4 boards, screwed or floating installation
- ▶ 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.



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EN 13813:2002	
Calcium sulphate levelling compound for substrates in interior locations	
EN 13813: CA-C35-F7	
Reaction to fire	A1fl
Release of corrosive substances	CA
pH	>7
Compressive strength	C35
Flexural strength	F7

PRODUCT BENEFITS/FEATURES:

Quick drying smoothing compound with Fusion-Technology, with excellent flow properties and super smooth finish. The low-stress smoothing compound has a long working time and can be used over a wide variety of substrates, despite its high strength. Pumpable, for interior use.

- ▶ Quick drying, allowing floors to be installed after 8 hours
- ▶ Long working time, ideal for pump application
- ▶ Very high load capacity
- ▶ Low stress
- ▶ Excellent flow characteristics
- ▶ Super smooth finish

TECHNICAL DATA:

Packaging	paper bag, big bag (on request)
Pack size	20 kg
Shelf life	min. 12 months
Water quantity	4.25 - 4.5 litres per 20 kg bag
Colour	light grey
Consumption	approx. 4.5m ² at 3mm per bag
Ideal application temperature	15 - 25 °C
Working time	approx. 40 minutes*
Ready for foot traffic	after approx. 3 hours*
Ready for covering	after approx. 8 hours*
Minimum application temperature	15 °C at ground level
Flow ring spread	approx. 155 mm ± 5 mm
Fire reaction	A1fl acc. to DIN EN 13 501-1

*At 20 °C and 65 % relative humidity. 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. Put 4.25 - 4.5 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, pin rake 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		20 kg / 13.3 m ²
3 mm		20 kg / 4.5 m ²
10 mm		20 kg / 1.3 m ²

READY FOR COVERING:

Planned Top Layer	Layer Thickness	Ready for Covering
Textile and resilient floor coverings;	3 mm	approx. 8 hours*
wood flooring (in conjunction with 1-component PUR primers)	5 mm	approx. 12 hours*
	10 mm	approx. 24 hours*
	20 mm	approx. 3 days*
Textile and resilient floor coverings (in conjunction with STP or PUR adhesives);	3 mm	approx. 24 hours*
wood flooring (in conjunction with UZIN PE 390 or without primer)	5 mm	approx. 36 hours*
	10 mm	approx. 3 days*
	20 mm	approx. 5 days*
Textile and resilient floor coverings with UZIN Sigan 1 / UZIN Sigan Elements Plus (in conjunction with UZIN Planus) or UZIN Sigaway Original (in conjunction with UZIN PE 260)	3 mm	approx. 24 hours*
	5 mm	approx. 36 hours*
	10 mm	approx. 3 days*
	20 mm	approx. 5 days*
Arturo reactive resin coatings	3 mm	approx. 20 hours*
	5 mm	approx. 36 hours*
	10 mm	approx. 3 days*
	20 mm	approx. 5 days*

*At 20 °C and 65% 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 increase if 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, limited air circulation, dense substrates, and a large thickness will delay setting and drying times. 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 mixerpumps.
- ▶ Ground-bearing slabs must be sealed against rising damp in accordance with the relevant standards.
- ▶ 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 installing special skirting with vent openings.

- ▶ The minimum thickness for castor resistance 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 each coat to dry completely before applying the next. Then apply, e. g., UZIN PE 360 PLUS as an intermediate primer and leave to dry before applying subsequent coats. Subsequent applications must not exceed the thickness of the previous one.
- ▶ For thicknesses above 10 mm and on moisture-sensitive substrates, use gritted epoxy primers, such as UZIN PE 481.
- ▶ Prime fixed timber substates and other jointing substrates with UZIN PE 630.
- ▶ For old mastic asphalt screeds, floating chipboard P4-P7 or OSB 2-OSB 4 boards, thicknesses up to max. 10 mm is allowed. Prime with water-free primers, e.g., UZIN PE 404 (2 coats), UZIN PE 481, or UZIN KR 410, and sand in each case.
- ▶ On sanded reaction resin primer, the minimum layer thickness is 3 mm.
- ▶ The minimum thickness below wood flooring is 3 mm. Pay particular attention to ensuring the smoothing compound is sufficiently dry before installing wood flooring.
- ▶ Do not use in exterior or wet areas.
- ▶ Do not use as wearing floor covering or wearing surface; always apply a top covering.
- ▶ Fine micro-dust is produced when sanding levelling compounds with Fusion technology. This dust must be extracted with a powerful industrial vacuum cleaner to ensure a good bond between the levelling compound, adhesive, and covering.
- ▶ Compounds must not enter between the insulation and the heating pipes due to the risk of corrosion. This applies in particular to heating pipes made from galvanised steel or copper. 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 respect of the applicable national standards (e.g., B.S., EN, DIN, OE, SIA, etc.)

packaging tightly. When mixing, wear a dust-mask and gloves. Thorough ventilation must be ensured during and after the installation and drying time of the product. Do not eat, drink or smoke during the installation. After contact with eyes or skin, wash immediately with plenty of water. Do not allow dispersal into drains, sewers or ground. Rinse tools with water and soap immediately after use. The basic prerequisites for optimal room air quality after floor covering work consist of installation conditions conforming to standards and well-dried substrates, primers and levelling compounds.

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.

SEALS OF QUALITY & ECOLABELS:

- ▶ Levelling compound on calcium sulphate base
- ▶ 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, redispersible polymers, high-performance liquefiers and additives.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Gypsum levelling compound. The use of barrier creams is recommended. Keep out of the reach of children. Store in a dry and cool place. Once opened, immediately close