

Gypsum Smoothing Compound

UZIN NC 110

Calcium sulphate based smoothing compound, with Level Plus Effect S.

MAIN APPLICATION FIELD:

Gypsum smoothing compound with high-performance liquefier technology for levelling, smoothing, adjusting and building up of substrates. Especially suitable for old substrates and substrates with mixed patches in the renovation field.

Superior flow characteristics, the uniform and homogeneous surface appearance as well as the smoothness of the surface offer the contractor the ideal base for subsequent installation of floor covering or working on wooden floors

SUITABLE ON / FOR:

- ▶ subsequent flooring of textile and resilient floor coverings of all types
- ▶ subsequent installation of wood flooring in combination with UZIN 2-K PUR, 1-K PUR or MSP adhesives
- ▶ heavy duty in residential, commercial and industrial areas, e.g. in hospitals, high-traffic shopping malls, industrial shops, etc.
- ▶ hot-water underfloor heating or thin-layer heating systems
- ▶ loads from chair castors according to DIN EN 12 529 from 1 mm compound thickness



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

PRODUCT BENEFITS/FEATURES:

UZIN NC 110 is virtually stress free when drying. This is particularly beneficial for unstable substrates and deep fill projects, resulting in a crack free surface even when thick applications are left exposed for lengthy periods. Dilapidated substrates can be salvaged avoiding time consuming and expensive remedial work. Thanks to a new raw material combination a superior flow effect is produced, combined with a homogeneous and uniform surface appearance.

- ▶ Superior flow characteristics
- ▶ Very smooth surface
- ▶ Rapid drying progress
- ▶ Low stress

TECHNICAL DATA:

Packaging	paper bag
Pack size	25 kg
Shelf life	min. 12 months
Water quantity	5.5 litres per 25 kg bag
Colour	white
Consumption	approx. 5.5m ² @ 3 mm per bag
Ideal application temperature	15 - 25 °C
Pot life	approx. 35 minutes*
Ready for foot traffic	after 2 - 3 hours*
Ready for covering	after approx. 20 hours*
Minimum application temperature	15 °C at ground level
Fire reaction	A1 _{fl} according to DIN EN 13 501-1

*At 20 °C and 65% relative humidity and max. thickness of 3 mm. See "Ready for covering".



EXTENDED APPLICATIONS:

Suitable on new substrates, e.g. on:

- ▶ calcium sulphate screeds, mastic asphalt screeds, IC 10 and IC 15 or cementitious screeds
- ▶ precast screeds, e.g. gypsum fibre boards
- ▶ chipboard P4 – P7 or OSB 2 – OSB 4 panels when screwfixed

Suitable on old substrates, e.g. on:

- ▶ magnesia and xylolite screeds
- ▶ old mastic asphalt screeds IC 10 and IC 15
- ▶ old calcium sulphate screeds, cementitious screeds or concrete
- ▶ old chipboard P4 – P7 or OSB 2 – OSB 4 panels when screwfixed and old adhesive or smoothing compound residues
- ▶ old substrates, e.g. on dense, bonded, waterproof adhesive bed
- ▶ Existing ceramic and natural stone coverings, Terrazzo or similar

SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks, clean 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 standards and bulletins and report any deficiencies.

Any adhesion-reducing or unstable layers, e.g. release agents, residues of loose adhesives, levelling compounds, covering or paint, etc. must be removed, e.g. by brushing off, 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 primers that are applied to dry completely.

Refer to the product data sheets for other products used.

APPLICATION:

1. Put 5.5 litres of cold, clean water into clean container. Sprinkle in sack contents into the water whilst stirring vigorously until a smooth and lump-free consistency is obtained. Use a drill or mixer fitted with a UZIN Mixing Paddle.
2. Pour out the mix onto the substrate and distribute evenly with a smoothing trowel or the UZIN Screed Rake. For thicker coats or when using the screed rake, the flow and surface can be improved by removing air using the UZIN Spike Roller. Where possible, apply to the desired thickness in one coat.

READY FOR COVERING:

Layer thickness	Ready for Covering
upto 3mm	20 hours*
each additional mm	additional 20 hours*

*At 20 °C and 65% relative humidity.

CONSUMPTION:

Thickness	Approx. coverage per bag
1 mm	16.6 m ²
3 mm	5 m ²
10 mm	1.6 m ²

IMPORTANT NOTES:

- ▶ Shelf life at least 12 months in original packaging when stored in dry conditions. Setting and drying properties may become prolonged with increasing storage period.
- ▶ The properties of the cured material are not affected hereby. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum processing at 15 – 25 °C and relative humidity below 65 %. Low temperatures, high humidity, little air circulation, dense substrates and large thickness will delay 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 adopted. Fit UZIN Foam Expansion Strips to any adjoining rising structures to prevent ingress of the compound into the connection joints.
- ▶ 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.
- ▶ Can be pumped with continuously mixing spiral pumps, e.g. from manufacturers such as m-tec, P.F.T. and others.
- ▶ Minimum thickness for resistance to castors is 1 mm. On non-absorbent substrates such as old screeds with closed waterproof adhesive bed or on mastic asphalt (screed), a thickness of 2 – 3 mm must be levelled.
- ▶ When applying in several coats leave compound to dry completely. Apply UZIN PE 360 PLUS as an intermediate primer and leave to dry before applying subsequent coats of NC110.
- ▶ For thicknesses above 10 mm, on moisture-sensitive (calcium sulphate screeds) or weak substrates (e.g. adhesive residues), use epoxy-resin primers, such as UZIN PE 460 or PE480, gritted.
- ▶ Use UZIN PE 630 for priming on firmly attached floorboards and other substrates with joints.
- ▶ Thicknesses up to max. 10 mm are allowed for old mastic asphalt screeds, chipboard P4 – P7 or OSB/ 2 – OSB / 4 installed in floating technique. Priming with anhydrous primers must be applied here, e.g. with UZIN PE 414 Turbo (2 coats), UZIN PE 460 or UZIN KR 410, each sanded.
- ▶ The minimum thickness on gritted reactive resin primer is 3 mm.
- ▶ The minimum thickness beneath wood flooring is 3 mm. Adequate drying of the smoothing compound prior to bonding wood flooring is especially important.
- ▶ Do not use in exterior or wet areas.

- ▶ Grinding gypsum smoothing compounds creates very fine micro-dust. Vacuuming with a powerful industrial vacuum cleaner is mandatory to creating a good bond between the smoothing compound, adhesive and floor covering.
- ▶ Smoothing compound must not enter between insulation and heating pipes because of the risk of corrosion. This applies in particular for heating pipes 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 floor covering or wood flooring of the respective applicable national standards (e.g. EN, DIN, OE, SIA, etc.). The following standards and bulletins represent supporting information and are recommended for special attention:
 - ▶ – DIN 18 365 “Working with floor covering”, Ö-Norm B 2236
 - ▶ – DIN 18 356 „Working with wood flooring”, Ö-Norm B 2218
 - ▶ – TKB publication “Assessment and preparation of substrates for floor covering and wood flooring installation”
 - ▶ – BEB publication “Assessment and preparation of substrates”

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
- ▶ DE-UZ 113 / Environmentally friendly because of low emissions

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 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. Physiologically and ecologically harmless when cured and dry. 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