

## Gypsum Smoothing Compound

# UZIN NC 105

Calcium sulphate based smoothing compound for thicknesses up to 15 mm

### MAIN APPLICATION FIELD:

- ▶ levelling of substrates, e.g. calcium sulphate (floating) screeds and precast screeds as well as most substrates in need of renovation

### PRODUCT BENEFITS/FEATURES:

- ▶ cementitious screed or calcium sulphate screed
- ▶ precast screed, e.g. Gypsum fibre boards
- ▶ magnesia and xylolite screeds
- ▶ mastic asphalt screeds IC 10 and IC 15
- ▶ old screed or concrete, also with old smoothing compound and adhesive residues attached
- ▶ existing ceramic and natural stone coverings, Terrazzo or similar

### SUITABLE ON / FOR:

- ▶ calcium sulphate or cementitious screeds
- ▶ precast screeds, screed boards
- ▶ magnesia and xylolite screeds
- ▶ existing and new IC 10 and IC 15 mastic asphalt screeds
- ▶ old screeds or concrete, which may contain old compounds and adhesive residues
- ▶ existing ceramic and natural stone coverings, terrazzo or similar
- ▶ 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, shops, etc.



### PRODUCT BENEFITS/FEATURES:

Good flow, very low stress. Ideal for residential and industrial areas.

- ▶ good flow
- ▶ smooth surface
- ▶ very low stress

### TECHNICAL DATA:

Packaging	paper bag, Big Bag (on request)
Pack size	25 kg
Shelf life	min. 12 months
Water quantity	5.5 litres per 25 kg bag
Colour	medium grey
Consumption	approx. 1.6 kg/m <sup>2</sup> /mm thickness
Ideal application temperature	15 - 25 °C
Pot life	approx. 30 minutes*
Ready for foot traffic	after 3 hours*
Ready for covering	after approx. 24 hours*
Minimum application temperature	15 °C at ground level
Fire reaction	A1 <sub>n</sub> according to DIN EN 13 501-1

\*At 20 °C and 65% relative humidity and max. thickness of 3 mm. 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 and notices and report concerns in case of defects.

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. Pour 5.5 litres of cold clean water into clean bucket. Add bag contents (25 kg) into the water whilst stirring vigorously until a creamy and lump-free compound is obtained. Use a mixer with the UZIN smoothing compound stirrer.
2. Pour the compound onto the substrate and spread uniformly with the trowel or the UZIN screed rake. With thicker layers or with the raking method the surface can be improved even further using the UZIN spike roller. Preferably spread the gypsum smoothing compound with the desired thickness in one application.

## READY FOR COVERING:

Layer thickness	Ready for Covering
up to 3mm	24 hours*
any additional mm	additional 24 hours*

\*At 20 °C and 65% relative humidity.

## CONSUMPTION:

Thickness	Approx. coverage per bag
1 mm	15.6 m <sup>2</sup>
3 mm	5.2 m <sup>2</sup>
10 mm	1.5 m <sup>2</sup>

## 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 conditions 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 nonabsorbent 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 smoothing in several layers leave compound to dry completely, apply UZIN PE 360 PLUS as intermediate primer and smooth subsequently after drying (4 – 6 hours). The second smoothed layer must not exceed the thickness of the first one.
- ▶ 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 480, 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 panels installed in floating technique. Priming with anhydrous primers must be applied here, e.g. with UZIN PE 404 (2 coats), UZIN PE 480.
- ▶ The minimum thickness on gritted reactive resin primer is 3 mm.
- ▶ Do not use in exterior or wet areas.
- ▶ Sanding of self-levelling gypsum smoothing compounds creates very fine micro-dust. Vacuuming it off with a powerful industrial vacuum cleaner is mandatory to creating a good bond between 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.
- ▶ Amongst others, the following standards, guidelines and bulletins represent supporting information and are recommended for special attention.
  - DIN 18365 “Working with floor covering”, Ö-Norm B 2236
  - TKB publication “Assessment and preparation of substrates for floor covering and wood flooring work”
  - BEB publication “Assessment and preparation of substrates”
  - TKB publication “Technical description and application of floor smoothing compounds”

## SEALS OF QUALITY & ECOLABELS:

- ▶ Levelling compound on calcium sulphate base
- ▶ EMICODE EC 1 PLUS / Very low-emission

## COMPOSITION:

Special binders, mineral aggregates, redispersible polymers and additives.

## PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Gypsum levelling compound. The use of skin protection lotion is recommended as a rule. Wear protective dust mask when mixing. 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.

## 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.