

## Rapid Gypsum Smoothing Compound

# UZIN NC 112 TURBO

Rapid drying compound for all floor coverings and wood flooring for thicknesses from 0 to 30 mm

### MAIN APPLICATION FIELD:

High performance, quick drying gypsum based smoothing compound. Especially suitable for quick renovation on weak old substrates and mixed substrates. The extremely good flow properties and smooth uniform appearance provide the installer with the best basis for subsequent installation of fabric and resilient floor covering or wood flooring. Pumpable, for interior application.

### SUITABLE ON / FOR:

- ▶ calcium sulphate or cementitious screeds
- ▶ old screeds or concrete, which may contain old compounds and adhesive residues
- ▶ existing and new P4 - P7 or OSB 2 - OSB 4 boards, screwed or installed floatingly
- ▶ existing ceramic and natural stone coverings, terrazzo or similar
- ▶ existing and new IC 10 and IC 15 mastic asphalt screeds
- ▶ precast screeds, screed boards
- ▶ warm water underfloor heating systems or thin film heating systems
- ▶ exposure to castor wheels in accordance with DIN EN 12 529 from 1 mm thickness
- ▶ suitable for residential, commercial and industrial areas, e.g. hospitals, busy shopping malls, industrial halls etc.



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EN 13813:2002	
Calcium sulphate levelling compound for substrates in interior locations	
EN 13813: CA-C40-F10	
Reaction to fire	ER
Release of corrosive substances	CA
pH	>7
Compressive strength	C40
Flexural strength	F10

### PRODUCT BENEFITS/FEATURES:

UZIN NC 112 Turbo is a high performance, rapid drying, gypsum based smoothing compound which quickly creates smooth substrates ready to accept floor coverings. Especially suitable for a quickly renovating weak, old or mixed substrates. For interior use.

- ▶ superior flow characteristics
- ▶ quick drying, ready to accept floor coverings after 6 hours\*
- ▶ very low tension
- ▶ very high strength

### TECHNICAL DATA:

Packaging	paper bag
Pack size	20 kg
Shelf life	12 months
Water quantity	4.5 - 5 litres per 20 kg bag
Colour	white
Consumption	approx. 5 m <sup>2</sup> @ 3 mm thickness
Ideal application temperature	15 °C - 25 °C
Pot life	15 - 20 minutes*
Ready for foot traffic	after approx. 1 - 2 hours*
Ready for covering	after approx. 6 hours*
Minimum application temperature	10 °C at ground level
Flow ring spread	approx. 155 mm ± 5 mm
Fire reaction	A1 <sub>f</sub> according to DIN EN 13 501-1

\*At 20 °C and 65% relative humidity with max. thickness of 5 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 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:

- Put 4.5 - 5 litres of cold, clear water into a clean container. Sprinkle in the contents of the bag (25 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.

## READY FOR COVERING:

Planned Top Layer	Layer Thickness	Ready for Covering
Textiles and resilient flooring (e.g. PVC, linoleum, rubber), ceramic and natural stone flooring	3 mm	approx. 6 hours
	5 mm	approx. 6 hours*
	10 mm	24 hrs
Textile and elastic coverings with Sigan 1 or Sigan Elements Plus + Planus Primer	3 mm	Apply Planus approx. 24 h after levelling at the earliest
Wood flooring	3 mm	24 hrs
	5 mm	24 hrs
	10 mm	24 hrs

At 20 °C / 65% rh

## CONSUMPTION:

Thickness	Approx. coverage per bag
1	15 m <sup>2</sup>
3	5 m <sup>2</sup>
10	1.5 m <sup>2</sup>

## IMPORTANT NOTES:

- Shelf life 12 months in original packaging when stored in dry conditions. 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, high thickness, non-absorbent or blocked substrates will delay setting, drying and readiness for covering. High temperatures, low humidity and absorbent substrates accelerate setting, drying and readiness for covering. Furthermore, drying progress depends largely on the air flow per hour. Removing moist air, e.g. through ventilation, is therefore essential to achieving quick readiness for covering.
- Store in cool and dry conditions in summer and use cold water. If not the working time is shortened.
- 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. Expansion strips are generally necessary for thicknesses over 5 mm. On wooden substrates the expansion strip must be completely removed after levelling work.
- Can be pumped with continuously mixing spiral pumps, e.g. from manufacturers such as m-tec, P.F.T. and others. Subsequent agitator recommended.
- Rooms without a basement underneath must be sealed against rising moisture in compliance with standards.
- The substructure of wooden floors must be dry to prevent damage due to dampness 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.
- Minimum thickness for resistance to castors is 1 mm. On non-absorbent substrates such as old screeds, a closed firmly adhering waterproof adhesive bed with a thickness of 2 – 3 mm must generally be applied.
- When smoothing in several layers allow compound to dry completely, apply e.g. UZIN PE 360 as intermediate primer and smooth subsequently after drying. Subsequent application must not exceed the thickness of the previous one.
- Thicknesses up to max. 10 mm are allowed for old mastic asphalt screed, 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 beneath wood flooring is 2 mm. Adequate drying of the levelling compound prior to bonding wood flooring is especially important.
- Do not use in exterior or wet areas.
- Do not use as wearing floor covering or wearing surface; always apply a top covering.

- ▶ Sanding gypsum levelling compounds creates very fine microdust. Vacuuming the dust with a powerful industrial vacuum cleaner is mandatory to creating a good bond between levelling compound, adhesive and floor covering.
- ▶ Levelling compound must not enter between insulation and heating pipes because of the risk of corrosion. This applies in particular to heating pipes from galvanized steel. Insulation may only be cut off after levelling.
- ▶ Follow the generally acknowledged rules of the trade and practice for the installation of wood flooring and floor covering of the respective applicable standards (e.g. EN, DIN, Ö-standard, 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
  - DIN 18 352 “Tile and slab work”
  - TKB publication “Assessment and preparation of substrates for floor covering and wood flooring installation”
  - BEB publication “Assessment and preparation of substrates”
  - ZVPF Technical Bulletin “Quality Requirements on the Flatness of Substrates for Floor covering and Wood flooring”

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
- ▶ 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