



Rapid gypsum levelling compound

UZIN NC 112 Turbo



Extremely smooth and rapid setting calcium sulphate based levelling compound, with Level Plus Effect S for thicknesses up to 10 mm

Areas of applications:

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 for:

- ▶ subsequent installation of all types of textile and resilient floor covering such as PVC/CV flooring, luxury floor covering, rubber flooring, linoleum, cork, Enomer (chlorine-free) floor covering, PUR flooring
- ▶ subsequent installation of all types of wood flooring
- ▶ subsequent installation of ceramics and natural stone floor coverings
- ▶ heavy duty requirements in residential, commercial and dry industrial areas, e.g. in hospitals, high-traffic shopping malls, industrial shops, etc. (without moisture impact)
- ▶ hot-water underfloor heating or thin-layer heating systems
- ▶ loads from chair castors according to DIN EN 12 529 from 1 mm compound thickness



CE	
0761	
Uzin Utz AG Dieselstraße 3 D-89079 Ulm	
17	
01/01/0064.01	
EN 13 813:2002 Calcium sulphate levelling compound for substrates in interior locations	
EN 13 813: CA-C40-F10	
Reaction to fire	A1_{fl}
Release of corrosive substances	CA
pH	>7
Compressive strength	C40
Flexural strength	F10

UZIN ÖKOLINE



LEED contributing product

Composition: Special binders, mineral aggregates, redispersible polymers, high-performance liquefiers and additives.

- ▶ Superior flow characteristics
- ▶ Quick drying, ready to accept floor coverings in 6 hours*
- ▶ Very low-tension
- ▶ Very high strength
- ▶ Levelling compounds on calcium sulphate basis
- ▶ EMICODE EC 1 PLUS/very low-emission
- ▶ RAL UZ 113/Environmentally compatible because of low emission

Technical data:

Packaging:	Paper bag opening device
Pack size:	25 kg
Shelf life:	min. 6 months
Required water quantity:	4.5 – 5 litres per 25 kg sack
Colour:	white
Coverage:	approx. 15 m ² at 1 mm per bag
Minimum working temperature:	10 °C at ground level
Ideal working temperature:	15 °C – 25 °C
Working time:	15 – 20 minutes*
Set to foot traffic:	After 1 – 2 hours*
Ready for covering:	after approx. 6 hours*
Fire class:	A1 _{fl} according to DIN EN 13 501-1

* At 20 °C and 65 % relative humidity at max. 5 mm thickness. See also "Ready for covering".



Provides the highest possible level of emission safety and contributes towards creating a healthy room climate. Marked with the "Blue Angel" for low-emission floor covering adhesives and other installation materials according to RAL-UZ 113.

Extended areas of application:

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, screw-fixed or installed

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, also with floating installation, and old adhesive or levelling compound residues
- ▶ old substrates, e.g. on dense, bonded, waterproof adhesive bed
- ▶ existing ceramic and natural stone coverings, Terrazzo or similar

Product features / properties:

UZIN NC 112 Turbo is ideal for use on construction sites with weak substrates and the customer wishes for a quick, cost effective installation of textile, resilient or wood flooring.

The innovative raw material composition of UZIN NC 112 Turbo provides the installer with security during installation, e.g. directly on weak, critical substrates. The high-performance technology also produces outstanding flow characteristics and allows most floor coverings to be installed after just 6 hours. It provides the perfect base for a variety of floor coverings.

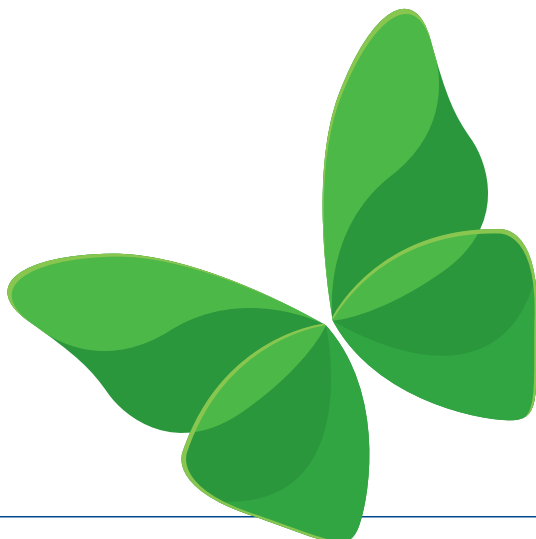
Application example:



The formulation of UZIN NC 112 Turbo sets new standards in the area of gypsum-based levelling compounds. Mixed substrates with patches of mastic asphalt screed and wooden substrates are often encountered in renovation work. Gypsum-based levelling compounds often represents the ideal option of creating a low-tension, uniform surfaces.



The superior smooth finish of UZIN NC 112 Turbo, combined with quick setting and low-tension formulation, as well as rapid strength development, represents a new generation in the area of gypsum-based levelling compounds.



Subfloor preparation:

The substrate must be firm, 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, loose adhesives, compounds, covering or paint residues 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.

Processing:

1. Pour 4.5 – 5 litres of cold, clean water into a clean container. Sprinkle in contents of sack (25 kg) while thoroughly stirring at the same time and mix to form a thick lump-free consistency. 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, notch size R 2. 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.

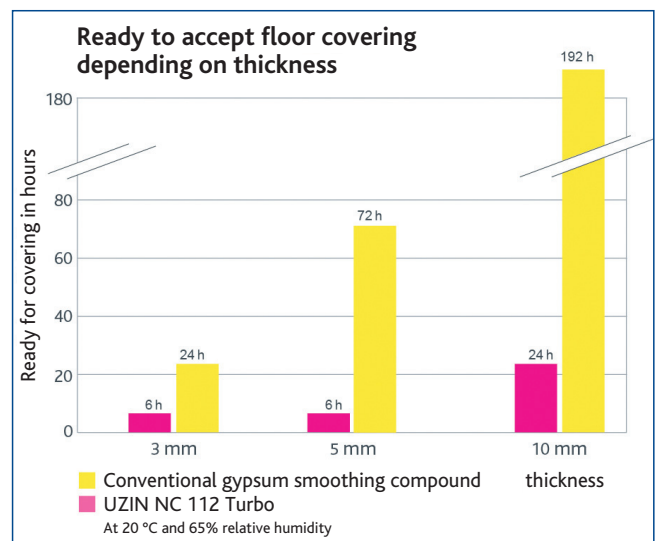
Consumption information:

Thickness	Approx. coverage per 20 kg sack
1 mm	15 m ²
3 mm	5 m ²
10 mm	1.5 m ²

Ready for covering:

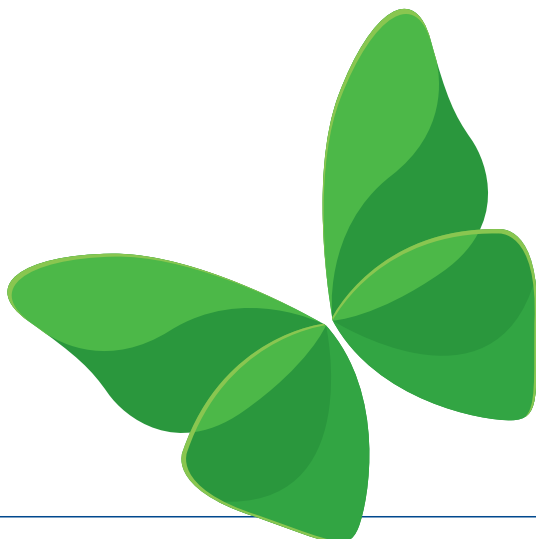
Floor Coverings	Ready for covering at 20 °C / 65 % rel. humidity	
	Textiles and resilient flooring (e.g. PVC, linoleum, rubber), ceramic and natural stone flooring	3 mm
5 mm		Approx. 6 hours
10 mm		Approx. 24 hours
Textile and elastic coverings with Sigan 1 or Sigan Elements Plus + Planus Primer	3 mm	Apply Planus approx. 24 h after levelling at the earliest
	10 mm	Apply Planus approx. 24 h after levelling at the earliest
Wood flooring	3 mm	Approx. 24 hours
	5 mm	Approx. 24 hours
	10 mm	Approx. 48 hours

Floor Coverings	Ready for covering at 10 °C / 80 % rel. humidity	
	Textiles and resilient flooring (e.g. PVC, linoleum, rubber), ceramic and natural stone flooring	3 mm



The Level Plus Effect S provides the installer with three essential advantages:

- ▶ **Quick:** Ready to accept floor coverings after 6 hours because of the innovative, reactive binding agent and new additive
- ▶ **Secure:** Reliable drying, even in unfavourable climatic conditions, due to high water retention
- ▶ **Strong:** Great surface strength and high strength development because of the high-quality raw materials



Important notes:

- ▶ Shelf life at least 6 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 micro-dust. 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”

Protection of the workplace and the environment:

Gypsum-based levelling compound. The use of barrier creams is recommended. Keep out of the reach of children! When mixing, wear a dust-mask and gloves when indicated. 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. 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.

EMICODE EC 1 PLUS – very low emission. Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC). Presents no physiological or ecological risk when fully cured.

Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

For allergy information, call +49 (0)731 4097-0 (Germany).

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty paper bags are recyclable. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.

