

Gypsum levelling compound with indicator

UZIN NC 111 BICOLOR

Self smoothing compound with drying indication for all floor coverings and wood flooring for thicknesses from 0 to 10 mm

MAIN APPLICATION FIELD:

- ▶ smoothing and levelling of substrates for the subsequent installation of textile and resilient floor coverings, wood flooring or ceramic / natural stone coverings. Especially suitable for weak, old and mixed substrates in renovation areas. The color changes to show when floor coverings can be installed.
- ▶ for thicknesses up to 10 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 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
- ▶ magnesia and xylolite 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 dry industrial locations, e.g. hospitals, busy shopping malls or industrial halls



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Uzin Utz SE Dieselstrasse 3 89079 Ulm	
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EN 13813:2002	
Calcium sulphate levelling compound for substrates in interior locations	
EN 13813: CA-C50-F10	
Reaction to fire	A1fl
Release of corrosive substances	CA
pH	>7
Compressive strength	C50
Flexural strength	F10

PRODUCT BENEFITS/FEATURES:

UZIN NC 111 BiColor is a gypsum levelling compound which changes colour to show when the floor coverings can be installed. It avoids the use of measuring instruments and indicates where adhesive is applied. For subsequent installation of textile and resilient floor coverings or wood flooring. For interior use.

- ▶ color change shows readiness for covering
- ▶ color change shows application of adhesive
- ▶ very low tension
- ▶ very high strength

TECHNICAL DATA:

Packaging	paper bag
Pack size	25 kg
Shelf life	min. 6 months
Water quantity	5.0 litres per 25 kg bag
Color	white / green after mixing / salmon when ready for covering
Consumption	approx. 1.7 kg/m ² /mm thickness
Ideal application temperature	15 - 25 °C
Working time	15 - 20 minutes*
Ready for foot traffic	after 2 hours*
Ready for covering	after color change / approx. 8 - 10 hours*
Minimum application temperature	10 °C at ground level
Fire reaction	A1 _n nach 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 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 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.
- UZIN NC 111 BiColor begins to change colour from light green when wet to salmon when dry. In areas with increased air circulation or other situations that accelerate drying (e.g. underfloor heating, tilted windows, etc.), the colour change may occur earlier. Floor coverings should be installed when the entire surface has changed colour.

CONSUMPTION INFORMATION:

Layer Thickness	Approx. Consumption	Size / Coverage
1 mm	1.7 kg/m ²	25 kg / 14.7 m ²
3 mm	5.1 kg/m ²	25 kg / 4.9 m ²
10 mm	17.0 kg/m ²	25 kg / 1.4 m ²

READY FOR COVERING:

Planned Top Layer	Layer Thickness	Ready for Covering
Textile and resilient floor coverings (e.g. PVC, linoleum, rubber), ceramic and natural stone coverings	2 - 5 mm	after colour change from light green to salmon (approx. 8 - 10 hours*)
Textile and resilient floor covering with Sigan 1 or Sigan Elements Plus + Planus	2 - 5 mm	approx. 30 hours*
Wood flooring	2 - 5 mm	approx. 30 hours*

*At 20 °C and 65% relative humidity.

The climate conditions will effect the drying time. Reliable indication of when textile and resilient floor coverings can be installed is shown by the change in colour. The drying time information is for guidance only.

IMPORTANT NOTES:

- ▶ A shelf life of 6 months when stored in dry conditions, in the original packaging. The setting and drying times may become longer if the 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, little air circulation, dense substrates and large thickness will delay the setting and drying time. 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 mixer-pumps, e.g. from manufacturers such as m-tec, P.F.T. and others.
- ▶ 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.
- ▶ Minimum thickness for resistance of castors 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 the compound to dry completely. Then apply UZIN PE 360 PLUS as a intermediate primer and leave to dry, before applying subsequent coats. The second coat must not exceed the thickness of the first one.
- ▶ Thicknesses up to a max. 10 mm are allowed for old mastic asphalt screeds, P4 - P7 chipboard or OSB 2 - OSB 4 panels when installed via the floating technique. They must be primed with waterless primers, e.g. UZIN PE 414 BiTurbo (2 coats), UZIN PE 460 or UZIN KR 410, gritted.
- ▶ The minimum thickness below wood flooring / pre-finished wood flooring is 2 mm. Pay particular attention to a sufficient drying of the levelling compound prior to installation of wood flooring.
- ▶ Do not use in exterior or wet areas.
- ▶ Do not use as a screed or as a wear surface, a surface covering must always be applied.
- ▶ Grinding gypsum-based compounds creates very fine micro-dust. Vacuuming with a powerful industrial vacuum cleaner is mandatory to create a good bond between the compound, adhesive and floor covering.
- ▶ Compounds must not enter between insulation and heating pipes because of the risk of corrosion. This applies in particular for heating pipes made 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 wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.)

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 packaging is recyclable. Collect waste product, mix with water, allow to harden, then dispose as Construction Waste.