

Colour Changing Smoothing Compound

UZIN NC 111 BiColor

Gypsum based smoothing compound which changes colour when the floor covering is ready to install

MAIN APPLICATION FIELD:

Gypsum based smoothing compound which changes colour to indicate when to install the floor covering. It helps create a flat and smooth surface up to 10 mm thick. Especially suitable for renovation work where the installer wants to reliably detect readiness for covering without measuring equipment. For the subsequent installation of carpet and resilient floor covering

SUITABLE ON / FOR:

- ▶ subsequent installation of textile and resilient floor covering of all types such as PVC/CV flooring, luxury floor covering, rubber flooring, linoleum, cork, Enomer (chlorine-free) floor covering, PUR flooring
- ▶ subsequent installation of ceramics and natural stone floor coverings
- ▶ heavy duty for use in commercial and industrial areas, e.g. hospitals, high-traffic shopping centres, industrial floor spaces, etc. (without moisture impact)

Suitable on new substrates, e.g. on:

- ▶ subsequent installation of wood flooring of all kinds (Due to the swelling and shrinking behaviour of wood, a longer drying time (approx. 30 hours) is to be observed)
- ▶ 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 floating



CE	
0761	
Uzin Utz AG	
Dieselstrasse 3	
89079 Ulm	
18	
01/01/0070.01	
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:

The semi-fast gypsum smoothing compound shows when textile and resilient floor covering can be installed by changing colour from light green to salmon. The installer can see with the naked eye, without the need for measuring equipment, when the smoothing compound is dry

- ▶ Changes colour when dry to indicate when to install the floor covering
- ▶ Indicates adhesive moisture through colour change
- ▶ Very low-tension
- ▶ Very high strength
- ▶ Smoothing compound on calcium sulphate base

TECHNICAL DATA:

Packaging	paper bag
Pack size	25 kg
Shelf life	min. 6 months
Water quantity	5.0 litres per 25 kg bag
Colour	white / green after mixing / salmon when ready for covering
Consumption	approximately 15 m ² at 1 mm per bag
Ideal application temperature	15 - 25 °C
Pot life	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	A1fl 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 firm, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease), that would impair adhesion. Cementitious 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, smoothing 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 range 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. Pour 5 litres of cold clear water into clean vessel. Add bag contents (25 kg) into the water whilst stirring vigorously until a creamy and lump-free compound is obtained. Use agitator with the UZIN smoothing compound stirrer.
2. Pour compound onto the substrate and spread uniformly with the smoothing trowel or the UZIN screed rake, notch size R 2. The already excellent flow and surface can be improved even more by aerating with the UZIN spike roller. Preferably spread the desired thickness in one application.
3. The UZIN NC 111 BiColor begins to change the surface colour from light green to salmon with increasing complete drying. In areas with increased air circulation or other situations that accelerate complete drying (e.g. underfloor heating, tilted windows, etc.), the colour change may occur earlier. The smoothing compound is ready for covering when the entire surface has changed colour.

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	2 - 5 mm	After colour change from light green to salmon approx. 8 – 10 hours
Textiles and resilient floor coverings with Sigan 1 or Sigan Elements Plus + Planus primer	2 - 5 mm	approx. 30 hours*
Wood flooring	2 - 5 mm	approx. 30 hours*

*At 20 °C and 65% relative humidity.

CONSUMPTION:

Thickness	Approx. coverage per bag
1 mm	14.7 m ²
3 mm	4.9 m ²
10 mm	1.4 m ²

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:

- ▶ Shelf life at least 6 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, 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 changes per hour. Removing moist air, e.g. through brief intermittent full ventilation, is therefore essential to achieving quick readiness for covering.
- ▶ Store in cool and dry conditions in summer and use cold water. Note shortened application time at high material or ambient temperatures.
- ▶ 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 dampness in compliance with standards.
- ▶ 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 to castors is 1 mm. On nonabsorbent 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 leave compound to dry completely, apply e.g. UZIN PE 360 PLUS 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 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 404 (2 coats), UZIN PE 480 grit binded with sand.
- ▶ The minimum thickness beneath wood flooring is 2 mm. Adequate drying of the smoothing 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 of self-smoothing gypsum levelling 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.
- ▶ The 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 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 bulletin “Assessment and preparation of substrates for floor covering and wood flooring installation”
 - BEB bulletin “Assessment and preparation of substrates”
 - ZVPF bulletin “Quality requirements on the flatness of substrates for floor covering and wood flooring”

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.