

Woodfloor Levelling Compound

UZIN NC 175

Self-levelling, fibre-reinforced cement smoothing compound in thickness up to 20 mm

Description:

Very low emission, self-levelling, fibre-reinforced cement smoothing compound for interior wooden subfloors in thicknesses from 3 – 20 mm. Suitable for producing level, prepared surfaces with good absorbency for floor covering and wood flooring work as well as for installation of ceramics and natural stone.

Suitable for/on:

- ▶ producing level, absorbent, prepared surfaces for textile and resilient floor coverings, e.g. carpets, PVC and cushioned vinyl, PVC design flooring, PU sheet, rubber or polyolefin coverings
- ▶ surface smoothing prior to installation of ceramics and natural stone or any wood flooring work
- ▶ renovation and refurbishment of wooden subfloors (jointed and with only slight deflection) with rapid drying performance
- ▶ wooden substrates, e.g. floor boards, chipboard V 100 (screw-fixed), OSB board (screw-fixed), wood flooring or other wooden subfloors with joint parts
- ▶ all usual screeds and substrates, especially in old buildings
- ▶ existing substrates in need of refurbishment, e.g. over beds of dense, well-bonded, waterproof adhesives
- ▶ normal wear in domestic and commercial locations
- ▶ warm water underfloor heating systems
- ▶ exposure to castor wheels in accordance with DIN EN 12 529

Product Properties / Benefits:

Highly plasticised, dry powder mortar-mix with fibre reinforcement. When mixed with water, produces a hydraulic setting, high-quality, free-flowing mortar.

The special advantage of Woodfloor Levelling Compound UZIN NC 175 is the integrated fibres and the very high polymer content. On so-called "problem substrates", this fibre-mix offers both the best adhesion to the substrate as well as the highest possible reliability in the renovation and refurbishment of old subfloors.



CE	
UZIN UTZ AG Dieselstraße 3 D-89079 Ulm 06	
EN 13813 CT-C40-F7 Fibre-reinforced cementitious levelling compound for sub- strates in interior locations	
Fire resistance	A2fl-s1
Compressive strength	C40
Tensile strength	F7



Composition: Special cements, mineral aggregates, polyvinyl acetate copolymers, flow agents and additives.

- ▶ For thickness from 3 – 20 mm
- ▶ Good flow properties and pumpable
- ▶ Fibre-reinforced
- ▶ High compressive and tensile strength
- ▶ Low stress
- ▶ Extremely highly plasticised
- ▶ Low chromate content
- ▶ EMICODE EC 1 R/Very low emission

Technical Data:

Packaging:	paper sack
Packsize:	25 kg
Shelf life:	min. 6 months
Water quantity:	6.5 litres per 25 kg sack
Colour:	grey
Consumption:	approx. 1.3 kg / m ² per mm of thickness
Working temperature:	min. 15 °C / 59 °F at floor level
Working time:	20 – 30 minutes*
Set to foot traffic:	after approx. 2 hours*
Ready for covering:	after approx. 24 hours*

*At 20 °C / 68 °F and 65 % relative humidity.
See also "Application – Section 3".

Substrate Preparation:

The subfloor must be sound, dry, free from cracks, clean and free from materials that would impair adhesion.

Cement- and calcium sulphate-screeds must be abraded and vacuumed as a chargeable service, either as a finishing treatment by the screed installer, or as a special project by the installer of the floor covering.

The residual moisture content of the wood, measured using the Darr method or with suitable moisture test equipment for wood materials, must lie in the range of equilibrium of 6 – 12 % by volume.

In the case of abnormal values, obtain technical advice.

Sections of the substrate must be sound. Screw fix any loose, springing or creaking boards or panels.

Test the subfloor in accordance with applicable standards and notices and report any deficiencies.

Brush, abrade, grind or shot-blast any soft or weak surface sections.

Thoroughly vacuum to remove loose material and dust.

According to type and condition of the subfloor, select a suitable primer from the UZIN Product Guide.

Application:

1. Put 6.5 litres of cold, clean water into a clean container. Sprinkle in the sack contents (25 kg) whilst stirring vigorously and blend to a viscous, lump-free mix. Use a drill with the UZIN Mixing Paddle for levelling compounds. Do not mix too thin.
2. Pour out the mix onto the primed subfloor and distribute evenly using a smoothing trowel. For thicker coats, flow and surface finish can be improved by removing air with the UZIN Spike Roller. Where possible, apply to the desired thickness in one coat. Minimum thickness 3 mm.
3. Ready for installation of textile, resilient and natural stone coverings after approx. 24 hours per 3 mm thickness*. Ready for installation of ceramic tiling after approx. 24 hours per 10 mm thickness*. Sanding with 36 – 60 grade grit-paper increases surface quality, visual appearance and absorbency.

*At 20 °C / 68 °F and 65 % relative humidity.

Consumption:

Thickness	Consumption	Approx. coverage per 25 kg sack
3 mm	3.9 kg/m ²	6 m ²
5 mm	6.5 kg/m ²	4 m ²
10 mm	13.0 kg/m ²	2 m ²

Important Notes:

- ▶ Shelf life minimum 6 months in original packaging when stored in dry conditions. Tightly seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum working conditions are 15 – 25 °C / 59 – 77 °F and relative humidity below 75%. Low temperatures, high humidity and greater thicknesses delay, whilst high temperatures and low humidity accelerate setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- ▶ Expansion-, movement- and wall-connection- joints must be reflected through from the substrate to the surface. As required, fit UZIN Expansion Strips against any structures to prevent ingress of the wet compound into the connection joint.
- ▶ The substructure of wooden flooring must be dry so as to avoid moisture damage due to rotting or mould formation. Ensure adequate ventilation, especially when installing vapour impermeable coverings, e.g. by removing any edge expansion strips or by using special skirtings with ventilation holes.
- ▶ Pumpable with continuous, forced-action mixer-pumps, e.g. m-tec duo mix, P.F.T.-Monojet, etc.
- ▶ Due to the incorporated fibres, and dependent on thickness and type of substrate, produces a somewhat rougher surface than with normal levelling compounds. Therefore, in individual cases prior to installation of visually sensitive coverings (e.g. cushioned vinyl or rubber), a top smoothing coat may be necessary, e.g. with UZIN NC 170.
- ▶ When applying more than one coat, allow to dry completely, prime with Universal Primer UZIN PE 360 and allow primer to dry (approx. one hour*) before applying the next coat, either with the same compound or with subsequent smooth coatings use Levelling Compound UZIN NC 170.
- ▶ For thickness above 10 mm on weak substrates, "flexible" primers such as 2-Component PU Levelling Compound UZIN KR 410 should be pre-applied by roller as a primer-coat and grit-blinded.
- ▶ On mastic asphalt, do not exceed a thickness of 3 mm where possible.
- ▶ Protect freshly laid surfaces from draughts, direct sunlight and sources of heat. On soft or sticky surfaces, cement compounds are prone to cracking. On existing surfaces, therefore, old adhesive residues and soft or sticky layers must be removed as far as possible before applying primers and smoothing compounds. Also, leaving smoothing compounds uncovered for too long can promote cracking and should be avoided.
- ▶ The following standards, regulations and notices are applicable and especially recommended:
 - DIN 18 365 "Working with floor coverings"
 - DIN 18 356 "Working with wood flooring"
 - DIN 18 352 "Working with large and small format tiling"
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
 - BEB publication "Assessment and preparation of surfaces".

Protection of the Workplace and the Environment:

Irritant. Contains cement low in chromate acc. Directive 2003/53/EC. Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse thoroughly and immediately with water. In the event of skin or eye irritation, consult a doctor. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured. Meets EMICODE EC 1 requirements (less than 200 micro-grams per cubic metre of Volatile Organic Compound emission) for maximum user safety and promoting healthier Indoor Air.

Disposal:

Dispose of empty packaging according to local regulations. Collect waste material, mix with water and allow to harden- then dispose as Construction Waste.