

Levelling Compound

UZIN NC 170

Self-levelling, high-strength, cement flooring compound for use at any thickness

UZIN ÖkoLine®: A system of tested and approved installation materials based on the principles of neutral odour and clean indoor air (see "Protection of the Workplace and the Environment").

Description:

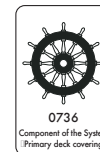
Very low emission, self-levelling smoothing- and levelling compound for all types of interior flooring work.

Suitable for /on:

- ▶ producing level, absorbent, prepared surfaces for textile and resilient floor coverings of all types, e.g. textile coverings, PVC or cushioned vinyl, PVC design flooring, linoleum, cork, rubber or polyolefin coverings
- ▶ smoothing work prior to bonding of wood flooring with reaction resin adhesives
- ▶ smoothing work prior to installation of ceramic tiles and natural stone flooring
- ▶ new substrates, e.g. cement- and calcium sulphate-screeds or concrete
- ▶ new, sound, screw-fixed chipboards V 100* or OSB boards*
- ▶ new and to only a limited extent existing mastic asphalt (see "Important Notes") as well as for scratch-coat on aggregated asphalt and cold pitchmastic
- ▶ existing substrates, e.g. on dense, well-bonded, waterproof adhesive bed, existing ceramic and natural stone flooring, terazzo and the like
- ▶ magnesia- and stonewood-screeds, dry screed materials
- ▶ heavy wear use in domestic-, commercial- and industrial locations
- ▶ warm water underfloor heating systems
- ▶ exposure to castor wheels in accordance with DIN EN 12 529 from 1 mm level thickness



CE	
UZIN UTZ AG Dieselstraße 3 D-89079 Ulm 06	
EN 13 813 CT-C40-F7 Cementitious levelling compound for substrates in interior locations	
Fire resistance	A 1fl
Compressive strength	C 40
Tensile strength	F 7



ÖKOLINE



Product Properties / Benefits:

Highly plasticised dry powder mortar with special, finely graded fillers. When mixed with water, produces a hydraulic-setting, high quality, free-flowing compound with exceptional application and usage properties. The special advantage of Levelling Compound UZIN NC 170 is the ideal combination of multipurpose use, the best application properties, highest strength development and load bearing capacity.

Composition: Special cements, mineral fillers, polyvinylacetate copolymers, flow agents and additives.

- ▶ Without thickness limitation
- ▶ Exceptional flow properties and pumpable
- ▶ Rapid setting and readiness for covering
- ▶ Low stress
- ▶ Highly plasticised
- ▶ Very high compressive and tensile strengths
- ▶ Low chromate content
- ▶ EMICODE EC 1 R / Very low emission

Technical Data:

Packaging:	paper sack, BigBag
Packsize:	25 kg, 1000 kg
Shelf-Life:	min. 6 months
Water quantity required:	6.0 – 6.5 litres per 25 kg sack
Colour:	grey
Consumption:	approx. 1.4 kg / m ² per mm of thickness
Working temperature:	min. 5 °C / 41 °F at floor level
Working time:	20 – 30 minutes*
Set to foot traffic:	after 1 – 2 hours*
Ready for covering:	after approx. 24 hours*

*At 20 °C / 68 °F and 65 % relative humidity in limited thickness up to 3 mm. See also "Application" point 3.

Substrate Preparation:

The substrate must be sound, load-bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease) that would impair adhesion. Calcium sulphate screeds must be abraded and vacuumed as a special finishing process, either as a final treatment by the screed installer or as a special and chargeable service by the covering installer. Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Any weakly bonded or soft surface layers, e.g. separating agents, loose residues of adhesives, levelling compounds, coverings or coatings must be removed e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum off all loose material and dust. According to type and condition of the substrate, select suitable primer from the UZIN Product Guide. Allow applied primer to dry completely. Always gritblind reaction resin primers such as e.g. 2-Component Epoxy Primer-Sealer UZIN PE 460.

Refer to the Product Data Sheets for other products used.

Application:

1. Put 6.0 – 6.5 litres of cold clean water into a clean container. Sprinkle in the sack contents (25 kg) whilst stirring vigorously and mix to a viscous, lump-free consistency. Use a drill fitted with the UZIN Mixing Paddle for levelling compounds. Do not mix too thin.
2. Pour out the mix onto the primed substrate and distribute evenly with a smoothing trowel or the UZIN Screed Rake. In thicker coats or when using a smoothing rake, flow and surface finish can be improved by using the UZIN Spike Roller. Where possible, apply to the desired thickness in one application.
3. Ready for covering with textile, resilient and natural stone flooring after approx. 24 hours per 3 mm of thickness*. Ready for installation of ceramic tiling after approx. 24 hours per 10 mm of thickness*. Sanding off with 36 – 60 grade grit-paper increases surface quality, improves appearance and absorbency.

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

Consumption:

Thickness	Consumption	Approx. coverage per 25 kg sack
1 mm	1.4 kg / mm ²	18 m ²
3 mm	4.2 kg / mm ²	6 m ²
10 mm	14.0 kg / mm ²	2 m ²

Important Notes:

- ▶ Shelf life minimum 6 months in original packaging when stored in dry conditions. Carefully and tightly reseal opened packaging and use the contents as quickly as possible.

- ▶ Optimum conditions are 15 – 25 °C / 59 – 77 °F and relative humidity below 65 %. Low temperatures, high humidity and greater thickness will delay, whilst high temperatures and low humidity will accelerate the 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. Where necessary, fit UZIN Expansion Strips to any structures to prevent ingress of the mix into connection joints. For thickness above 5 mm, expansion strips are usually necessary.
- ▶ Pumpable using continuous-feed mixer-pumps, e.g. m-tec duo mix, P.F.T.-Monojet, etc.
- ▶ Minimum 1 mm thickness for resistance to castors. On non-absorbent surfaces, e.g. new mastic asphalt, apply a thickness of 2 – 3 mm.
- ▶ When applying in several coats, allow the compound to dry completely, prime with UZIN PE 360 and, when this is dry (approx. 1 hour*), apply the next coat. The second coat must not be thicker than the first.
- ▶ For thickness above 10 mm, the mix should be extended with up to 50 % (equal to 12.5 kg / sack) of dry UZIN Quartz Sand 1 – 2.5 mm.
- ▶ For thickness above 10 mm on surfaces that are moisture-sensitive (calcium sulphate screeds) or weak (old adhesive residues), use epoxy resin primer, such as UZIN PE 460 gritted.
- ▶ On new mastic asphalt that conforms to standards, thickness up to max. 5 mm is permissible. For use on old mastic asphalt, obtain technical advice.
- ▶ Do not use in exterior or wet areas.
- ▶ Protect freshly applied surfaces from draughts, direct sunlight and sources of heat. On soft or tacky surfaces, cement-based compounds have a tendency to crack. Therefore, soft or tacky material must be removed as far as possible before applying the compound. Also, leaving such compounds uncovered for too long promotes cracking and should be avoided.
- ▶ Do not use as a screed or as a wearing surface – a surface covering or coating must always be applied.
- ▶ UZIN NC 170 is a component of the System "Primary deck covering", consisting of UZIN NC 170, UZIN PE 520, UZIN PE 460 and UZIN Quartz Sand 0.8. This system is certificated by the "See-Berufsgenossenschaft" Hamburg to meet the requirements of Marine Equipment module B and module D. Certificates are available on request. The admitted thickness is 8 mm. USCG-No. module B 164.106 / EC0736 / 113.069.
- ▶ The following standards, regulations and publications are applicable and especially recommended:
 - DIN 18 365 "Working with floor coverings"
 - DIN 18 356 "Working with wood flooring and wood-blocks"
 - DIN 18 352 "Working with large and small format tiling"
 - TKB publication "Assessment and preparation of surfaces 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.