

PRODUCT DATA SHEET

Level Plus
Effect



Wood Flooring Levelling Compound

UZIN NC 174

Self levelling, high strength, cement floor levelling compound for wood flooring installations – thickness from 1.5 – 20 mm

Description:

Self-leveling cement levelling compound with high-performance plasticiser technology for smoothing and levelling before wood flooring installation. Pumpable. For interior use only.

Suitable for/on:

- ▶ producing absorbent, high strength surfaces for the installation of wood flooring, as well as for stress-relieving underlays UZIN Multimoll Vlies, UZIN Multimoll Top 4, UZIN Multimoll Top 7 and 12 and UZIN Multimoll SoftSonic 3 mm
- ▶ use on cement- and calcium sulphate-screeds, concrete, etc.
- ▶ mastic asphalt (max. 4 mm thickness)
- ▶ special demands on levels in accordance with DIN 18 202, Table 3, Row 4, e. g. before wood flooring installation
- ▶ warm water underfloor heating systems

System component for bonding wood flooring with UZIN dispersion adhesives.

For subfloors with dubious structural integrity or strength, see "Important Notes".

Product Properties/Benefits:

As a result of the raw material combination the Level Plus Effect is characterised by exceptional flow qualities and a very smooth surface.

Longer working times and thicknesses from 1.5 mm make it ideal for renovations. Good absorbency and a high tensile and shear strength result in a secure compound between levelling compound, adhesive and wood flooring.

When using dispersion wood flooring adhesives, the good absorbency and stability of the levelling compound against moisture will lead to more safety. Because of this rapid setting of the adhesive, rapid installation is possible.

The use of UZIN MK 85 Turbo requires the use of UZIN PE 385 as a primer first to avoid a very short open time.



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Uzin Utz AG Dieselstraße 3 D-89079 Ulm	
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01/01/0018.01	
EN 13 813:2002 Cementitious levelling compound for substrates in interior locations EN 13 813: CT-C35-F7	
Reaction to fire	A 1 fl
Release of corrosive substances	CT
Compressive strength class	C 35
Flexural strength class	F 7



Composition: Special cements, mineral aggregates, redispersible polymers and additives.

- ▶ Excellent flow due the Level Plus Effect
- ▶ For thicknesses from 1.5 – 20 mm
- ▶ Smooth surface
- ▶ Good absorbency
- ▶ Low stress
- ▶ High tensile and shear strength
- ▶ Low chromate content according to EU-VO 1907/2006 (REACH)
- ▶ EMICODE EC 1 R PLUS/Very low emission

Technical Data:

Packaging type:	paper sack
Packsize:	25 kg
Shelf-Life:	min. 9 months
Water Ratio:	5.5 – 6 litres per 25 kg sack
Colour:	grey
Coverage:	approx. 5.2 m ² at 3 mm per bag
Working temperature:	min. 15 °C/59 °F at floor level
Working time:	approx. 30 minutes*
Set to traffic:	after approx. 2 hours*
Set to Covering:	after approx. 18 hours at 2 mm thickness*

*At 20 °C/68 °F and 65 % relative humidity and 3 mm thickness.

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Substrate Preparation:

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

Calcium sulphate screeds must be abraded and vacuumed off. Test the substrate in accordance with applicable standards and regulations and report any deficiencies.

Weakly bonded or soft surface layers must be brushed, abraded, ground or shot-blasted. Thoroughly vacuum off the surface.

According to type and condition of the substrate, select a suitable primer from the UZIN Product Guide. Allow primers to dry thoroughly. Always grit-blind reaction resin primers like, e.g. 2-Component Epoxy Primer-Sealer UZIN PE 460/UZIN PE 480 or UZIN PE 414 Turbo.

Refer to the Product Data Sheets for the products used.

Application:

- Put 5.5 – 6 litres of cold, clean water into a clean container. Sprinkle in the sack contents (25 kg) whilst stirring vigorously and blend to a thick yet free-flowing, lump free mixture. Use a drill with an UZIN Mixing Paddle for levelling compounds.
- Pour out the mix onto the primed surface and distribute evenly using a smoothing trowel or the UZIN Sreed Rake. Where possible, apply to the desired thickness in one coat. To improve the flow and the surface finish, the mix can be rolled whilst still wet using the UZIN Spike Roller.

Consumption:

Thickness	Approx. coverage per 25 kg sack
1.5 mm	10 m ²
2 mm	7.5 m ²
10 mm	1.5 m ²

Ready for covering:

Thickness	Ready for covering
2 mm	18 hours*
5 mm	24 hours*
10 mm	48 hours*

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

Important Notes:

- ▶ Minimum shelf-life 9 months in original packaging and in cool and dry storage conditions. Over time the length of storage may also cause an extension to the setting and drying time. The performance of the cured material is not affected. 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 increased thickness will delay, and high temperatures will accelerate the setting, drying and readiness for covering. In summer, store in cool conditions and use the coldest possible water.
- ▶ Expansion-, movement- and wall-connection-joints must be reflected through from the substrate. If applicable, fit UZIN Expansion Strips against any structures so as to prevent the compound from flowing into the joint.
- ▶ Pumpable using continuous-feed mixer-pumps, e.g. m-tec duo mix, P.F.T.-Monojet, etc.
- ▶ For thickness above 5 mm, fit a flexible UZIN Expansion Strip of appropriate width to any adjoining structures.
- ▶ For greater thicknesses, above 10 mm, on moisture-sensitive or weak surfaces (e.g. on calcium sulphate screeds or old adhesive residues) pre-apply epoxy resin primer, such as 2-Component Epoxy Primer-Sealer UZIN PE 460, gritted.
- ▶ Protect freshly prepared surfaces from draughts and sources of direct sunlight and heat.
- ▶ Floors constructed of timber can exert high shear and pull forces. Ensure good surface- and bond-strengths of the substrate and the levelling compound.
- ▶ On substrates that have dubious surface strength, on existing floor finishes, etc., the inclusion of stress-relieving board, UZIN Multimoll Vlies or UZIN Multimoll Top 4 or UZIN Multimoll Top 9 as well as UZIN Multimoll Softsonic is recommended.
- ▶ Observe the generally acknowledged rules of the industry and technology for the installation of wood flooring as well as the respective applicable national standards. (e.g. EN, DIN, VOB, OE, SIA and others). The following standards and bulletins apply as well, amongst others, or are recommended for special consideration:
 - DIN 18 356 "Working with wood flooring"
 - ZDB publication "Resilient and textile floor coverings and wood flooring on heated floor constructions"
 - BEB publication "Assessment and preparation of substrates"
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
 - TKB publication "Bonding of wood flooring"
 - TKB publication "Technical description and processing of cement floor levelling compound"

Protection of the Workplace and the Environment:

Contains cement low in chromate acc. Regulation (EC) No 1907/2006 (REACH). Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse immediately with water. In the event of skin or eye irritation, seek medical advice. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured. EMICODE EC 1 R PLUS – very low emission. Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC). 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.

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.