



Fibre-reinforced levelling compound

UZIN NC 175

Self-levelling, fibre-reinforced cement levelling compound with Level Plus Effect for layer thicknesses up to 20 mm

Application areas:

Very low-emission, self-levelling, fibre-reinforced of smooth surfaces cement levelling compound for wood surfaces in layer thicknesses from 3–20 mm. **Suitable for the production of even laying surfaces with good absorbency for floor covering and wood flooring work.** Can be pumped, for interior use only.

Suitable for:

- ▶ the following installation of textile and elastic floor coverings of all types
- ▶ the following installation of wood flooring
- ▶ the following installation of ceramic and natural stone coverings
- ▶ heavy duty areas in residential, commercial and industrial areas, e.g. hospitals, busy shopping centres, workshops etc.
- ▶ warm water underfloor heating
- ▶ stresses from castors to DIN EN 12 529

Suitable for use on:

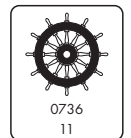
- ▶ wood surfaces, e.g. wooden fixed floorboards, chip-board panels P4 – P7 (**bolted**), OSB 2 – OSB 4 panels (**bolted**), parquet floors or other wood surfaces containing joints
- ▶ on raised access panels and flooring in conjunction with UZIN PE 630, see important notes
- ▶ other slightly flexible or critical surfaces containing joints, e.g. prefabricated screed elements, mastic asphalt screeds or other “problem surfaces”
- ▶ all other usual screeds and surfaces

Product benefits / properties:

The special benefit of wood floor levelling compound UZIN NC 175 lies in the high fibre and plastic content. On so-called “problem surfaces”, this fibre compound offers the best possible adhesion to the surface and the greatest possible reliability for refurbishment and renovation. Even in unfavourable climatic conditions, UZIN NC 175 dries out very quickly for the following installation of the final flooring finish.



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0761	
Uzin Utz AG Dieselstraße 3 D-89079 Ulm	
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01/01/0019.01	
EN 13 813:2002	
Fibre-reinforced cementitious levelling compound for substrates in interior locations EN 13 813:CT-C40-F10	
Reaction to fire	A2fl-s1
Release of corrosive substances	CT
Compressive strength	C40
Flexural strength	F10



Composition: Special cements, mineral additives, redispersing dispersion powder, high-performance condensers, fibres and additives **exceptional flow**.

- ▶ **Extremely good** flowing properties
- ▶ Smooth surface
- ▶ Very good absorbency
- ▶ For layer thicknesses from 3 mm
- ▶ Low chromate content
- ▶ EMICODE EC 1 R PLUS/very low emission

Technical data:

Packaging:	Paper sack
Package size:	25 kg
Shelf life:	at least 6 months
Water quantity required:	6 – 6.5 litres per 25 kg sack
Colour:	grey
Coverage:	approx. 6 m ² at 3 mm per bag
Minimum working temperature:	10 °C at floor level
Ideal working temperature:	20 °C at floor level
Working time:	20 – 30 minutes*
Set to foot traffic:	after 2 hours*
Ready for laying:	after approx. 18 hours*
Fire class:	A2fl-s1 to DIN EN 13501-1

* At 20 °C and 65 % relative humidity at maximum layer thickness of 3 mm.
See also “Ready for laying”.

Substrate preparation:

The substrate must be firm, dry, level, free of cracks, clean, load-bearing and free of any materials which might adversely affect the adhesion (dirt, oil, grease). Test substrates in accordance with applicable standards and notices, and report reservations in the event of faults.

Loose parts and unstable surface areas which might impair adhesion, e.g. separating agents, loose remains of adhesive, levelling compound, old coverings etc. should be removed by brushing, grinding or intensive sanding with a parquet grinding machine. Floorboards, chipboard panels and all other wood surfaces must be thoroughly sanded and new screws fitted where necessary. Vacuum off loose parts and dust thoroughly.

Use a suitable primer from the UZIN product range, depending on the type and properties of the surface. Allow the primer to dry thoroughly. Note the product data sheets of the products used.

Application:

1. Place 6 – 6.5 litres of cold, clean water into a clean container. Sprinkle in the contents of the sack (25 kg) while stirring vigorously, and mix into a smooth, lump-free mass. Use a stirring machine with the UZIN levelling compound stirrer.
2. Pour the mixture onto the surface and spread evenly using a trowel. For thicker layers, the very good coverage and the surface can be further improved by ventilating with the UZIN spiked ventilation roller. Apply UZIN NC 175 in the required layer thickness in one operation wherever possible.

Consumption data:

Layer thickness	25 kg sack covers approx.
3 mm	6 m ²
5 mm	3.6 m ²
10 mm	1.8 m ²

Ready for laying:

Layer thickness	Ready for laying
3 mm	18 hours*
5 mm	24 hours*
10 mm	48 hours*
20 mm	72 hours*

* At 20 °C and 65 % relative humidity.

Important instructions:

- ▶ May be stored in original container packaging in dry conditions for at least 6 months. Reseal opened containers carefully and use contents as quickly as possible.
- ▶ best applied at temperatures of 15 – 25 °C, relative humidity < 65 %. Low temperatures, high air humidity and high layer thicknesses delay hardening, drying and readiness for laying, high temperatures and low humidity reduce the corresponding times. In summer, store in a cool area and use cold water.

- ▶ Expansion, movement and edge joints of the substrate should be maintained. Fit UZIN edge-damping strips at adjoining components to prevent the compound running into connection joints. Edge-damping strips should be used for layer thicknesses above 5 mm.
- ▶ The underneath construction of wooden floors must be dry, in order to prevent damage caused by rot and mould. Ensure adequate back ventilation, particularly when laying coverings impermeable to water vapour, e.g. by removing the edge-damping strip or fitting special skirting boards with ventilation openings.
- ▶ Can be pumped with continually-mixing screw pumps from manufacturers such as m-tec, P.F.T. and others.
- ▶ Minimum thickness 3 mm. Contains fibres – cannot be applied with a squeegee.
- ▶ UZIN NC 175 is not designed to stop or disguise a floor that is still deforming, it is only designed to be able to cope with movement of that floor. It is important to ensure that any floor is in a stable working environment, any deformation of the substrate due to changing environmental conditions will be reflected in the surface of UZIN NC 175.
- ▶ In case of multi-layer application, allow the compound to dry thoroughly, apply an intermediate primer coat of UZIN PE 360 and after drying (1 hour*) apply fine levelling with UZIN NC 170 LevelStar. The thickness of the intermediate levelling should not exceed the thickness of the first layer.
- ▶ Floorboards and other surfaces containing joints should be primed with UZIN PE 630. On unstable, creaking or flexible surfaces, the "elastic" primer UZIN KR 410 should be rolled on and broadcast with sand. For layer thicknesses above 10 mm a reaction resin primer such as UZIN PE 460 should be applied and broadcast with sand.
- ▶ On unstable old surfaces with several layers of adhesive or levelling compound, the use of the fibre-reinforced gypsum levelling compound UZIN NC 115 is recommended.
- ▶ On new mastic asphalt screeds, layer thicknesses up to max. 5 mm are permissible, while on older mastic asphalt screeds with old layers the thickness should not exceed 3 mm. For higher layer thicknesses, gypsum-based levelling compounds such as UZIN NC 110 or UZIN NC 115 should be used.
- ▶ Do not use in outdoor or wet areas.
- ▶ Protect freshly levelled areas against draughts and the effects of sunlight and heat. Cement compound layers tend to form cracks on soft or tacky surfaces. These soft or tacky layers must therefore be completely removed before levelling. Leaving such layers open for too long also encourages the formation of cracks, and should therefore be avoided.
- ▶ The following standards, guidelines and notices also apply:
 - DIN 18 365 "Floor covering work"
 - DIN 18 356 "Parquet and wood block flooring work"
 - DIN 18 352 "Tile and panel work"
 - TKB Notice "Assessment and preparation of surfaces for floor covering and parquet work"
 - BEB Notice "Assessment and preparation of surfaces"

Protection of the Workplace and the Environment:

Contains cement, low-chromate acc. to 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.