

Deep Fill

UZIN Deep Fill

Economical deep fill for optimum thicknesses between 5 – 50 mm

Applications:

Deep fill containing coarse aggregate for optimum thickness between 5 – 50 mm. Economical subfloor preparation prior to the application of UZIN smoothing compounds. For use in areas with normal wear. Sustainable due to very low emission and recycled packaging. Pumpable, for interior application.

Suitable for:

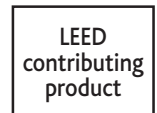
- ▶ subsequent installation of UZIN smoothing compounds
- ▶ normal duty for residential and commercial areas, e.g. in office buildings, residential dwellings, nursing homes, etc.
- ▶ hot water underfloor heating systems, especially for low-thickness systems
- ▶ loads from chair castors according to DIN EN 12 529 from 1 mm compound thickness

Product benefits / features

UZIN Deep Fill produces a hydraulic setting mortar with excellent application properties. UZIN Deep Fill is ideal for use as a deep fill as it is cost effective and combines the best application properties and low-stress setting performance, even in higher thicknesses.



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Uzin Utz AG Dieselstraße 3 D-89079 Ulm	
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EN 13 813:2002	
Cementitious screed for substrates in interior locations EN 13 813: CT – C30 – F5	
Fire resistance	A1_f
Release of corrosive substances	CT
Compressive strength	C30
Flexural strength	F5



Composition: Special cements, mineral fillers, redispersible polymer powders, flow agents and additives.

- ▶ Good flow
- ▶ Excellent flow properties and pumpable
- ▶ Low stress
- ▶ Good absorbency
- ▶ Low chromate content
- ▶ EMICODE EC 1 R PLUS / Very low-emission

Technical data:

Packaging:	paper bag
Pack size:	20 kg
Shelf life:	minimum 6 months
Required water quantity:	3.3 – 3.8 l / 20 kg bag
Colour:	grey
Coverage:	approximately 2.4 m ² at 5 mm per bag
Minimum working temperature:	15 °C at ground level
Ideal working temperature:	15 – 25 °C at ground level
Working time:	20 – 40 minutes*
Set to foot traffic:	after approx. 4 hours*
Ready for smoothing compounds:	after approx. 48 – 72 hours at 15 mm
Strength classification:	C 30 / F5 (DIN EN 13 813)

* At 20 °C and 65 % relative humidity.
Depth of application and surface porosity will affect dry time.

Extended area of application:

Suitable for use on:

- ▶ Cementitious screeds, screeds or concrete
- ▶ Old waterproof substrates with waterproof adhesive residues or smoothing compound residues
- ▶ Precast screeds, gypsum fibre boards
- ▶ Screw-fixed chipboard P4 – P7 or OSB 2 – 4 panels
- ▶ Existing ceramic and natural stone coverings, Terrazzo or similar
- ▶ New mastic asphalt IC 10 and IC 15

Substrate preparation:

The substrate must be sound, load-bearing, dry, free of cracks, clean and free of materials that could impair adhesion (dirt, oil, grease). Cement screeds must be abraded and vacuumed. Test the substrate in accordance with applicable standards or notices and report any deficiencies.

Any adhesion-reducing or unstable layers, e.g. release agents, loose adhesives, compounds, covering or paint residues etc. must be removed, e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum loose material and dust. Use a suitable primer from the UZIN Product Guide 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 3.3 – 3.8 litres of cold, clean water into a clean container. Add sack contents (20 kg) whilst stirring vigorously until a smooth and lump-free compound is obtained. Use a heavy-duty drill with the UZIN levelling compound mixer attachment (minimum 650 rpm).
2. Pour the compound onto the primed substrate and distribute evenly using a smoothing trowel or UZIN Screed Rake. In thicker coats or when using the screed rake, the surface finish can be improved by use of the UZIN Spike Roller. Where possible, apply to the desired thickness in one coat, at least 5 mm.

Coverage:

Thickness	Coverage 20 kg bag approx.
5 mm	2.4 m ²
10 mm	1.2 m ²

Important notes:

- ▶ Shelf life at least 6 months in original packaging when stored in dry conditions. 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 and 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. In summer, store in cool conditions and use cold water.
- ▶ UZIN Deep Fill may be used at a minimum of 3 mm but due to the coarse aggregate contents we recommend between 5 mm – 50 mm.

- ▶ We recommend that a UZIN smoothing compound is used after the installation of UZIN Deep Fill. However, in some instances UZIN Deep Fill may not require a subsequent coat of smoothing compound. Please consult technical advice.
- ▶ Expansion, movement and perimeter joints in the substrate must be reflected through to the surface. 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. Use subsequent agitator.
- ▶ When smoothing in several layers allow compound to dry completely, apply UZIN PE 360 as intermediate primer and smooth subsequently after drying. The thickness of the second smoothed layer must not exceed the thickness of the first one.
- ▶ The substructure of wooden floors must be dry to prevent damage due to dampness 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.
- ▶ For thicknesses above 10 mm, on moisture-sensitive (calcium sulphate screeds) or weak substrates (e.g. adhesive residues), use epoxy-resin primers, such as UZIN PE 460, gritted.
- ▶ Only for new mastic asphalt screeds thicknesses up to max. 5 mm. Older mastic asphalt screeds with old layers are not permissible. For greater thicknesses or old mastic asphalt screeds, gypsum-based smoothing compounds such as UZIN NC 110 or UZIN NC 115 should be used.
- ▶ With new firmly bolted chipboard P4 – P7 or OSB 2 – 4 panels, thicknesses up to max. 10 mm are permitted. Priming with anhydrous primers must be applied here, e.g. with UZIN PE 404 (2 coats), UZIN PE 460, UZIN PE 480 or UZIN KR 410, each grit bonded with sand.
- ▶ Avoid contact to metallic materials, e.g. pipes, water lines, etc. especially from galvanised steel since they do not exhibit permanent corrosion protection.
- ▶ Do not use in exterior or wet areas.
- ▶ Protect freshly smoothed areas from draughts, direct sunlight and sources of heat. Cementitious compound layers on soft or tacky substrates tend to form cracks. These soft or tacky layers must therefore be removed as much as possible before applying smoothing compounds. Leaving such compound layers open too long also promotes such cracking and should therefore be avoided.
- ▶ Do not use as wearing floor covering or wearing surface; always apply a smoothing compound and floor covering.
- ▶ Follow the generally acknowledged rules of the trade and the technology for the installation of wood flooring and floor covering of the respective applicable standards (e.g. EN, DIN, Ö-standard, SIA, etc.).
 - DIN 18 365 "Working with floor coverings", Ö-NORM B 2236
 - DIN 18 353 "Working with screeds"
 - DIN 18 560 "Screeds in the building industry"
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
 - BEB publication "Assessment and preparation of substrates"
 - TKB publication "Technical description and processing of floor levelling compounds"

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:

Do not dispose of into the sewer system, open water or the soil. Paper sacks can be recycled when emptied and free from any residues. Collect product residues, mix with water, allow to harden and dispose of as construction waste.