

Deep fill

UZIN NC 157

Deep fill & smoothing compound for thicknesses from 3 – 50 mm

Applications:

Deep fill smoothing compound with coarse grain for thicknesses from 3 – 50 mm. Suitable for producing level, prepared surfaces with good absorbency. For low stress work in areas with normal wear. Pumpable, for interior application.

Suitable for:

- ▶ subsequent installation of textile and resilient floor covering such as textile flooring, PVC/CV floor covering
- ▶ 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 NC 157 produces a hydraulic setting flow mortar with excellent application properties. It is ideal for use as a deep fill as it is cost effective and is low-stress even in higher thicknesses.



CE	
0761	
Uzin Utz AG Dieselstraße 3 D-89079 Ulm	
14	
01/01/0051.01	
EN 13 813:2002	
Cementitious levelling compound for substrates in interior locations	
EN 13 813: CT-C25-F5	
Fire resistance	A 1 fl
Release of corrosive substances	CT
Compressive strength	C 25
Flexural strength	F 5



LEED
contributing
product

Composition: Special cements, mineral fillers, polyvinyl acetate copolymers, 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:	25 kg
Shelf life:	minimum 6 months
Required water quantity:	4.5 – 5 l /25 kg-bag
Colour:	grey
Coverage:	approx. 5 m ² at 3 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:	2 – 4 hours*
Ready for covering:	after approx. 24 – 36 hours*
Strength classification (DIN EN 13 813):	C25 / F5

* 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 and old 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 and bulletins 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 4.5 – 5.0 litres of cold, clean water into a clean container. Add sack contents (25 kg UZIN NC 157) whilst stirring vigorously until a smooth and lump-free compound is obtained. Use a heavy-duty drill with the UZIN leveling compound mixer attachment (minimum 650 rpm).
2. Pour the compound onto the primed substrate and distribute evenly using a smoothing trowel or the 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 3 mm.

Consumption:

Thickness	Coverage 25 kg bag approx.
3 mm	5 m ²
5 mm	3 m ²
10 mm	1.5 m ²

Ready for covering:

Refer to the floor covering manufacturer regarding the maximum allowable substrate moisture content and qualify the substrate prior to installing UZIN NC 157.

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.
- ▶ 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.
- ▶ For new mastic asphalt screeds thicknesses up to max. 5 mm and for older mastic asphalt screeds with old layers attached thicknesses up to max. 3 mm are permissible. For greater thicknesses 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 414 Turbo (2 coats), UZIN PE 460, UZIN PE 480 or UZIN KR 410, each grit binded 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.
- ▶ 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 top 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“, ÖNORM 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.

