

Renovation smoothing compound

UZIN NC 163

Renovation smoothing compound which can be used without priming over old adhesives and cementitious substrates

Areas of application:

Renovation smoothing compound for use over old waterproof adhesive residues as well as absorbent and non-absorbent common building substrates. Can be used without priming in most instances. For the subsequent installation of textile or resilient flooring and wood flooring of all types. Pumpable, for interior use.

Suitable for:

- ▶ Subsequent installation of textile and resilient floor coverings of all types such as textile flooring, PVC/CV flooring, luxury vinyl tiles, rubber flooring, linoleum, cork, Enomer (chlorine-free) flooring (e.g. Upofloor Lifeline®), PUR flooring (e.g. WPT PURline®)
- ▶ Heavy-duty in residential and commercial areas, e.g. office buildings, residential dwellings, showrooms, etc.
- ▶ Hot water underfloor heating
- ▶ Loads from chair castors according to DIN EN 12 529 from 1 mm compound thickness

Suitable for use on:

- ▶ Substrates with sound, well bonded and waterproof adhesives or compound residues adhering to them
- ▶ Cementitious screeds or concrete
- ▶ Calcium sulphate screeds but must be primed, see important notes



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Uzin Utz AG Dieselstraße 3 D-89079 Ulm	
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EN 13 813:2002 Cementitious leveling compound for substrates in interior locations EN 13 813: CT-C30-F10	
Reaction to fire	A2_{fl-s1}
Release of corrosive substances	CT
Compressive strength class	C30
Flexural strength class	F10



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

- ▶ Can be used directly on old adhesive residues
- ▶ Smooth surface
- ▶ Good absorption
- ▶ Low chromate content according to EU-VO 1907/2006 (REACH)
- ▶ EMICODE EC 1 R PLUS/very low-emission
- ▶ No priming required up to 5 mm

Technical data:

Packaging:	paper sack
Packsize:	20 kg
Shelf life:	min. 9 months
Required water quantity:	approx. 5 litres per 20 kg sack
Colour:	grey
Coverage:	approximately 15 m ² at 1 mm per bag
Minimum working temperature:	10 °C at ground level
Ideal working temperature:	15 – 25 °C at ground level
Working time:	40 – 50 minutes*
Set to foot traffic:	after 2 ½ hours*
Ready for covering:	after approx. 20 hours*
Fire class:	A2 _{fl-s1} according to DIN EN 13 501-1

*At 20 °C and 65 % relative humidity. See also „Ready for covering“.

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Extended areas of application:

Suitable for:

- ▶ Subsequent installation of wood flooring

Suitable for use on:

- ▶ New jointed tongue and groove firmly screw-fixed chipboard P4 – P7 or OSB/2 – OSB/4 panels (please contact UZIN technical).
- ▶ Existing ceramic and natural stone coverings, Terrazzo or similar
- ▶ New and, conditionally, old mastic asphalt IC 10 and IC 15 (please contact UZIN technical)
- ▶ Magnesia and xylolite screeds (please contact UZIN technical)
- ▶ Precast screeds, gypsum fibre boards (please contact UZIN technical)
- ▶ Power floated screeds (must be abraded, please consult UZIN technical)

Please also see important notes before use.

Product benefits / features:

The special benefit of UZIN NC 163 is its combination of very high flexural strength and good flow properties. This combination allows direct installation on problematic substrates, e.g. on waterproof, firmly adhering old adhesives.

It can be used without a primer allowing for rapid renovations, saving both time and money.

Application sample:



UZIN NC 163 has been developed specifically for the renovation sector and can also be applied directly and effortlessly onto sound, well bonded and waterproof adhesive residues. It is easy to install using a smoothing trowel or using the raking method. The powder disintegrates quickly and without lumps and the excellent flow properties always represent a great basis for any subsequent work. This applies both to new construction or old substrates in renovation work.

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. Cement and calcium sulphate screeds must be abraded and vacuumed. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies.

Remove any weak or unstable layers, e.g. release agents, loose adhesive residues or levelling compounds, covering or paint residues, etc. e.g. by brushing, sanding, grinding or shot-blasting. Test any adhesive residues first to ensure they are not water-soluble. If soluble adhesives are found call UZIN technical dept for advice. Thoroughly vacuum loose material and dust. Thicknesses over 5 mm generally require a suitable primer from the UZIN range of products. Gritted UZIN 2-component EP primers must be used for thicknesses over 10 mm or on unstable substrates.

Refer to the product data sheets for other products used.

Processing:

1. Pour approx. 5 litres of cold, clean water into a clean container. Add the sack contents (20 kg) into the water whilst stirring vigorously until a smooth and lump-free compound is obtained. Use a drill or mixer fitted with a UZIN Mixing Paddle.
2. Pour out the mix onto the substrate and distribute evenly with a smoothing trowel or the UZIN Screed Rake, notch size R 2. The flow and surface can be improved by removing air using the UZIN Spike Roller. Where possible, apply to the desired thickness in one coat. A thickness of 2 – 3 mm must be applied to non-absorbent substrates.

Consumption information:

Thickness	Approx. coverage per 20 kg sack
1 mm	15 m ²
3 mm	5 m ²
10 mm	1.5 m ²

Extending UZIN NC 163:

Thickness	Ideal extension material and additive amount
10 – 20 mm	30 % UZIN quartz sand (6 kg sand / 20 kg powder)

The water factor must be adapted according to the thickness.

Ready for covering:

Thickness	Ready for covering
3 mm	20 hours*
5 mm	24 hours*

* At 20 °C 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 conditions at 15 – 25 °C and relative humidity below 65 %. Low temperatures, high humidity, high thickness, 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 adopted. 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.
- ▶ 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.
- ▶ Minimum thickness for resistance to castors is 1 mm. On non-absorbent substrates such as old screeds, a closed firmly adhering waterproof adhesive bed with a thickness of 2 – 3 mm must generally be applied.
- ▶ Allow the compound to dry completely when smoothing in several layers. Primers should be used for thicknesses over 5 mm. UZIN 2-component EP primers (2-layer application – 2nd layer gritted) must be used for thicknesses over 10 mm or on unstable substrates. The second smoothed layer must not exceed the thickness of the first one. UZIN PE 360 must be used as intermediate primer for the second levelling step over 5 mm. 2-component EP primers (2-layer application – 2nd layer gritted) must be used for the second levelling step over 10 mm.
- ▶ The minimum thickness beneath wood flooring is 2 mm.
- ▶ For thicknesses above 10 mm or on moisture-sensitive (calcium sulphate screeds) or weak substrates, use epoxy-resin primers, such as UZIN PE 460, gritted.
- ▶ On adsorbent surfaces it may be necessary to prime to help reduce suction and pinholes.
- ▶ When applying over old ceramic tiles or stone ensure they are free from contamination such as oil and grease. Sealed/glazed tiles may need priming (please consult technical).
- ▶ 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 are to be used.
- ▶ Thicknesses up to max. 3 mm are allowed for new, firmly screw-fixed jointed tongue and groove chipboard P4 – P7 or OSB/2 – OSB/4 panels. Must be free from contamination.
- ▶ 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 top covering.
- ▶ To avoid corrosion the smoothing compound must not get between heating pipes and insulation. This especially applies to pipes made of galvanised steel. The insulation may only be removed after the smoothing work has been completed.
- ▶ Amongst others, the following standards, guidelines and bulletins represent supporting information and are recommended for special attention.
 - 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. EMI CODE 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.