PRODUCT DATA SHEET

Standard smoothing compound

UZIN NC 145

Cementitious smoothing compound for thicknesses up to 6 mm

Applications:

Smoothing compound for work on standard construction substrates. For the subsequent installation of textile and resilient floor coverings. Pump-ready, for interior application.

Suitable for:

- Subsequent installation of textile and resilient floor covering such as textile flooring, PVC/CV floor covering
- Ideal in residential and commercial areas
- Hot water underfloor heating
- Loads from chair castors according to DIN EN 12 529 from 1 mm compound thickness

Suitable for use on:

- Cementitious screeds, calcium sulphate screeds or concrete
- With old waterproof substrates waterproof with adhesive or compound residues adhering to them

Product benefits / features:

UZIN NC 145 is the ideal product for work in residential and commercial areas. It combines economy with good smoothing.

CE
0761
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Dieselstraße 3
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13
01/01/0012.01
EN 13 813:2002
Cementitious levelling compound for substrates in interior locations
EN 13 813: CT–C20–F4

Reaction to fire	**A1fl**
Release of corrosive substances	**CT**
Compressive strength class	**C20**
Flexural strength class	**F4**

GEV-EMICODE EC 1 PLUS very low emission

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

- Good flow characteristics
- Very easy to sand
- Low chromate content according to EU-VO 1907/2006 (REACH)
- EMICODE EC 1 R PLUS /Very low-emission

Technical data:

Packaging:	paper bag
Pack size:	20 kg
Shelf life:	min. 9 months
Required water quantity:	approx. 4.8 litres per 20 kg bag
Colour:	grey
Coverage:	approx. 13.6 m² at 1 mm per bag
Minimum working temperature:	10 °C at ground level
Ideal working temperature:	15 – 25 °C at ground level
Working time:	20 – 40 minutes*
Set to foot traffic:	after 3 hours*
Ready for covering:	after approx. 24 hours*
Fire classification:	$A1_{fl}$ acc. to DIN EN 13 501-1

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

UZIN | A brand of Uzin Utz Group

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UZIN NC 145

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 off. 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 off 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 approx. 4.8 litres of cold, clean water into a clean container. Add sack contents (20 kg) into the water whilst stirring vigorously until a creamy and lump-free compound is obtained. Use agitator with the UZIN smoothing compound stirrer.
2. Pour compound onto the substrate and spread uniformly with the smoothing trowel or the UZIN screed rake, notch size R 2. The flow and surface can be improved even more by aerating with the UZIN spike roller. Preferably apply the desired thickness in one application.

Consumption information:

Thickness	Approx. coverage per 20 kg sack
1 mm	13.6 m²
3 mm	4.5 m²

Readiness for covering:

Thickness	Consumption
3 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 processing 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 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.
- Can be pumped with continuously mixing spiral pumps, e.g. from manufacturers such as m-tec, P.F.T. and others. Use subsequent agitator.
- Not suitable for use on chipboard and OSB panels.
- 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.
- When smoothing in several layers allow compound to dry completely, apply UZIN PE 360 as intermediate primer and smooth subsequently after drying. The second smoothed layer must not exceed the thickness of the first one.
- On weak older substrates with several layers of adhesive or levelling compound the use of gypsum-based smoothing compounds such as UZIN NC 110 or UZIN NC 111 is to be preferred.
- 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.
  – DIN 18 365 "Working with floor coverings"
  – 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:

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.

The above information is based on our experience and careful investigations. The variety of associated materials and different construction and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the covering manufacturer. The publication of this Product Data Sheet invalidates all previous Product Information. The respective updated version of this datasheet can be found on our Homepage under www.uzin.com.