PRODUCT DATA SHEET

Smoothing Compound

UZIN NC 160

20 ANNIVERSARY Uzin Ltd. Special Edition

Self-levelling cement floor smoothing compound for thickness up to 20 mm

Description:

Very low emission, self-levelling, cement compound for smoothing, levelling and repairing substrates in interior locations.

Suitable for / on:

- producing level, absorbent, prepared surfaces for textile and resilient floor coverings of all types, e.g. textile coverings, PVC or cushioned vinyl, PVC design flooring, linoleum, cork, rubber or polyolefin coverings
- new substrates, e.g. cement- and calcium sulphatescreeds or concrete
- new, sound, screw-fixed chipboards V 100* or OSB boards*
- new and to only a limited extent existing mastic asphalt (see "Important Notes")
- existing substrates, e.g. on dense, well-bonded, waterproof adhesive bed, existing ceramic and natural stone flooring, terazzo and the like
- magnesia- and stonewood-screeds, dry screed materials
- heavy wear use in domestic and comercial locations
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529 from 1 mm level thickness

Product Properties / Benefits:

Plasticised dry powder mortar mix with special fine aggregate. When mixed with water, produces a hydraulic setting, high quality smoothing compound with excellent application and usage properties. The special advantage of UZIN NC 160 is the combination of the very high strength, the best application properties and the high absorbency.

CE

UZIN UTZ AG
Dieselstraße 3
D-89079 Ulm
06

EN 13813 CT–C30–F7
Cementious levelling compound for substrates in interior locations

Fire resistance	A 1 fl
Compressive strength	C 30
Tensile strength	F 7

C 30 / DIN EN 13 813 / F7

GEV-EMICODE EC 1 PLUS very low emission

Composition: Special cements, mineral aggregates, polyvinylacetate copolymers, flow agents and additives.

- Fantastic Coverage
- For thickness up to 20 mm
- High absorbency
- Very low stress
- Easy to rub down
- Very high compressive and tensile strengths
- Low chromate content
- EMICODE EC 1 R PLUS / Very low emission PLUS

Technical Data:

Packaging:	paper sack
Packsize:	20 kg
Shelf life:	min. 6 months
Required water quantity:	4.8 – 5.2 litres per 20 kg sack
Colour:	grey
Consumption:	approx. 15 kg / m² per mixed unit at 1 mm thick
Working temperature:	min. 15 °C / 59 °F
Working time:	20 – 30 minutes*
Set to foot traffic:	after approx. 2 hours*
Ready for covering:	after approx. 24 hours*

* At 20 °C / 68 °F and 65 % relative humidity in limited thickness up to 3 mm. See also "Application" point 3.

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UZIN NC 160

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. Calcium sulphate screeds must be abraded and vacuumed as a special finishing process, either as a final treatment by the screed installer or as a special and chargeable service by the covering installer. Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Any weakly bonded or soft surface layers, e.g. separating agents, loose residues of adhesives, levelling compounds, coverings or coatings must be removed e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum off all loose material and dust. According to type and condition of the substrate, select suitable primer from the UZIN Product Guide. Allow applied primer to dry completely. Always gritblind reaction resin primers such as e.g. 2-Component Epoxy Primer-Sealer UZIN PE 460.

Refer to the Product Data Sheets for other products used.

Application:

1. Put 4.8 – 5.2 litres of cold clean water into a clean container. Sprinkle in the sack contents (20 kg) whilst stirring vigorously and mix to a viscous, lump-free consistency. Use a drill or mixer fitted with a UZIN Mixing Paddle. Do not mix too thin.
2. Pour out the mix onto the primed subfloor and distribute evenly with a smoothing trowel or rake. Where possible, apply to the desired thickness in one application. To improve flow and surface finish, remove air from the still-wet compound using the UZIN Spike Roller. Where possible, apply to the desired thickness in one application.
3. Ready for covering after approx. 24 hours per 3 mm of thickness*. Sanding off with 36 – 60 grade grit-paper increases surface quality, improves appearance and absorbency.

* At 20 °C/68 °F and 65 % relative humidity.

Consumption:

Thickness	Approx. coverage per 20 kg sack
1 mm	15 m²
3 mm	5 m²
10 mm	1.5 m²

Important Notes:

- Shelf life minimum 6 months in original packaging when stored in dry conditions. Carefully and tightly reseal opened packaging and use the contents as quickly as possible.
- Optimum conditions are 15 – 25 °C/59 – 77 °F and relative humidity below 65 %. Low temperatures, high humidity and greater thickness will delay, whilst high temperatures and low humidity will accelerate the setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- Expansion-, movement- and wall-connection-joints must be reflected through from the substrate. Where necessary, fit UZIN Expansion Strips to any structures to prevent ingress of the mix into connection joints. For thickness above 5 mm, expansion strips are usually necessary.
- Pumpable using continuous-feed mixer-pumps, e.g. m-tec duo mix, P.F.T.-Monojet, etc.
- Minimum 1 mm thickness for resistance to castors. On non-absorbent surfaces, e.g. new mastic asphalt, apply a thickness of 2 – 3 mm.
- When applying in several coats, allow the compound to dry completely, prime with UZIN PE 360 and, when this is dry (approx. 1 hour*), apply the next coat. The second coat must not be thicker than the first.
- For thickness above 10 mm, the mix should be extended with up to 50 % (equal to 12.5 kg/sack) of dry UZIN Quartz Sand 1 – 2.5 mm.
- For thickness above 10 mm on surfaces that are moisturesensitive (calcium sulphate screeds) or weak (old adhesive residues), use epoxy resin primer, such as UZIN PE 460 gritted.
- On new mastic asphalt that conforms to standards, thickness up to max. 5 mm is permissible. For use on old mastic asphalt, obtain technical advice.
- Do not use in exterior or wet areas.
- Protect freshly applied surfaces from draughts, direct sunlight and sources of heat. On soft or tacky surfaces, cement-based compounds have a tendency to crack. Therefore, soft or tacky material must be removed as far as possible before applying the compound. Also, leaving such compounds uncovered for too long promotes cracking and should be avoided.
- Do not use as a screed or as a wearing surface – a surface covering or coating must always be applied.
- The following standards, regulations and publications are applicable and especially recommended:
  – DIN 18 352 "Working with large and small format tiling"
  – TKB publication "Assessment and preparation of surfaces for floor covering and wood flooring installation"
  – BEB publication "Assessment and preparation of surfaces"

Protection of the Workplace and the Environment:

Irritant. Contains cement low in chromate acc. Directive 2003/53/EC. Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse thoroughly and immediately with water. In the event of skin or eye irritation, consult a doctor. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured. Meets EMICODE EC 1 R PLUS requirements (less than 200 micro-grams per cubic metre of Volatile Organic Compound emission) for maximum user safety and promoting healthier Indoor Air.

Disposal:

Dispose of empty packaging according to local regulations. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.