PRODUCT DATA SHEET

Gypsum smoothing compound

UZIN NC 110 NEW

Calcium sulphate based smoothing compound, with Level Plus Effect S for thicknesses up to 50 mm

Areas of application:

Gypsum smoothing compound with high-performance liquefier technology for levelling, smoothing, adjusting and building up of substrates. Especially suitable for old substrates and substrates with mixed patches in the reno vation field.

Superior flow characteristics, the uniform and homogeneous surface appearance as well as the smoothness of the surface offer the contractor the ideal base for subsequent installation of floor covering or working on wooden floors.

Suitable for:

- subsequent flooring of textile and resilient floor coverings of all types
- subsequent installation of wood flooring in combination with UZIN 2-K PUR, 1-K PUR or MSP adhesives
- heavy duty in residential, commercial and industrial areas, e.g. in hospitals, high-traffic shopping malls, industrial shops, etc.
- hot-water underfloor heating or thin-layer heating systems
- loads from chair castors according to DIN EN 12 529 from 1 mm compound thickness

Provides the highest possible level of emission safety and contributes towards creating a healthy room climate.

Marked with the **"Blue Angel"** for low-emission floor covering adhesives and other installation materials according to RAL-UZ 113.

CE
0761
UZIN UTZ AG
Dieselstraße 3
D-89079 Ulm
13
01/01/0009.02
EN 13 813:2002
Calciumsulfat Spachtelmasse für Bodenflächen im Innenbereich
EN 13 813: CA–C35–F7

Brandverhalten	$A1_{fl}$
Freisetzung korrosiver Substanzen	CA
pH-Wert	>7
Druckfestigkeitsklasse	C35
Biegezugfestigkeitsklasse	F7

UZIN ÖKOLINE

GEV-EMICODE EC 1 PLUS very low emission

BLUE ANGEL THE GERMAN ECOLABEL

www.blauer-engel.de/uz113

LEED contributing product

THIRD-PARTY VERIFIED EPD ISO 14025 and EN 15804 Institut Bauen und Umwelt e.V.

Composition: Special cements, mineral aggregates, redispersible polymers, high-performance liquefiers and additives.

- Superior flow characteristics
- Very smooth surface
- Rapid drying progress
- Low stress
- GISCODE CP 1/calcium sulphate based smoothing compound
- EMICODE EC 1 PLUS/very low-emission
- RAL UZ 113/low-emission and hence environmentally compatible

Technical data:

Packaging:	Paper bag with opening device
Pack size:	25 kg
Shelf life:	min. 12 months
Required water quantity:	5.5 litres per 25 kg bag
Colour:	white
Consumption:	approx. 18 m^2 at 1 mm per bag
Minimum working temperature:	15 °C at ground level
Ideal working temperature:	15 – 25 °C
Pot life:	approx. 35 minutes*
Ready for foot traffic:	After 2 – 3 hours*
Ready for covering:	after approx. 20 hours*
Fire class:	$A1_{fl}$ according to DIN EN 13 501-1

* At 20 °C and 65 % relative humidity at max. 3 mm thickness. See also "Ready for covering".

UZIN | A brand of Uzin Utz Group

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UZIN NC 110 NEW

Level Plus Effect S

Extended areas of application:

Suitable on new substrates, e.g. on:

- calcium sulphate screeds, mastic asphalt screeds, IC 10 and IC 15 or cementitious screeds
- precast screeds, e.g. gypsum fibre boards
- chipboard P4 – P7 or OSB 2 – OSB 4 panels, screw-fixed or installed floating

Suitable on old substrates, e.g. on:

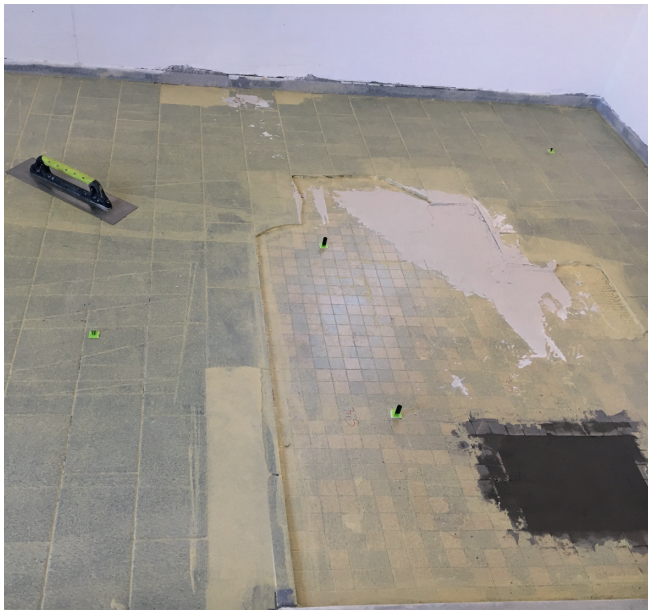
- magnesia and xylolite screeds
- old mastic asphalt screeds IC 10 and IC 15
- old calcium sulphate screeds, cementitious screeds or concrete
- old chipboard P4 – P7 or OSB 2 – OSB 4 panels, also with floating installation, and old adhesive or levelling compound residues
- old substrates, e.g. on dense, bonded, waterproof adhesive bed
- Existing ceramic and natural stone coverings, Terrazzo or similar

Product benefits / properties:

UZIN NC 110 is virtually stress free when drying. This is particularly beneficial for unstable substrates and deep fill projects, resulting in a crack free surface even when thick applications are left exposed for lengthy periods. Dilapidated substrates can be salvaged avoiding time consuming and expensive remedial work.

Thanks to a new raw material combination a superior flow effect is produced, combined with a homogeneous and uniform surface appearance.

Application example:



Old screeds with different heights can be renovated with UZIN NC 110 NEW.

High strength class CA-C35-F7, fire class $A1_{fl}$, hardly any usage restrictions – UZIN NC 110 NEW can be employed wherever unstable substrates require a low-tension smoothing compound.

ballister

UZIN NC 110 NEW

Level Plus Effect S

Subfloor 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.

Any adhesion-reducing or unstable layers, e.g. release agents, residues of loose adhesives, levelling compounds, covering or paint, etc. must be removed, e.g. by brushing off, 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.

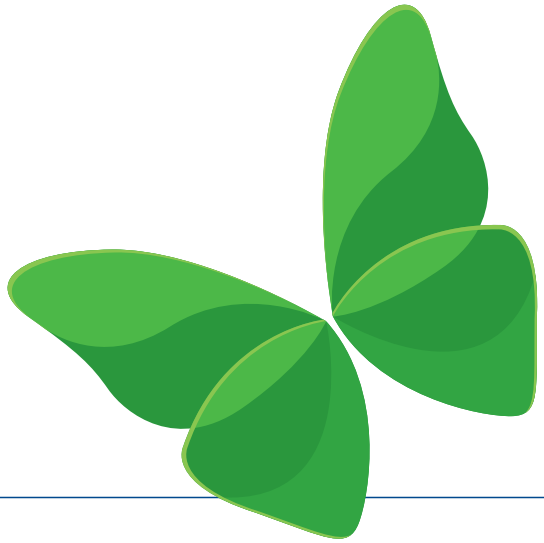
Refer to the product data sheets for other products used.

Application:

1. Put 5.5 litres of cold, clean water into clean container. Sprinkle in sack contents (25 kg) into the water whilst stirring vigorously until a smooth and lump-free consistency 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. For thicker coats or when using the screed rake, 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.

Consumption information:

Thickness	Approx. coverage per 25 kg bag
1 mm	18 m²
3 mm	6 m²
10 mm	1.8 m²



Ready for covering:

Thickness	Ready for covering
up to 3 mm	20 hours*
each additional mm	another 20 hours*

* At 20 °C and 65 % relative humidity.

As a rule of thumb it can be assumed that readiness for covering is reached after approx. 20 hours* up to thicknesses of 3 mm. The drying time is approx. 20 hours* for each additional mm of thickness.

* At 20 °C and 65 % relative humidity.

The Level Plus Effect S provides the installer with three essential advantages:

- **Time-saving:** Readiness for covering of 20 hours because of the reactive binding agent combination and additives
- **Secure:** Reliable drying
- **Strong:** Surface strength and high strength development because of the high-quality raw material composition

To achieve time-saving and effective drying with gypsum-based smoothing compounds, air and floor temperatures of at least 15 °C, better > 20 °C, in combination with continuous air exchange are absolutely necessary.

In case of poor climatic conditions or with high thicknesses, drying acceleration with condensate dryer, or similar, is recommended.

UZIN NC 110 NEW

Important notes:

- Shelf life at least 12 months in original packaging when stored in dry conditions. Setting and drying properties may become prolonged with increasing storage period.
- The properties of the cured material are not affected hereby. Carefully and tightly re-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, little air circulation, dense substrates and large thickness will delay whilst high temperatures and low humidity, strong air circulation and absorbent substrates will 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.
- The substructure of wooden floors must be dry to prevent damage due to damp 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.
- Can be pumped with continuously mixing spiral pumps, e.g. from manufacturers such as m-tec, P.F.T. and others.
- Minimum thickness for resistance to castors is 1 mm. On non-absorbent substrates such as old screeds with closed waterproof adhesive bed or on mastic asphalt (screed), a thickness of 2 – 3 mm must be levelled.
- When smoothing in several layers leave compound to dry completely, apply UZIN PE 360 PLUS as intermediate primer and smooth subsequently after drying (4 – 6 hours).
- 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.
- Use UZIN PE 630 for priming on firmly attached floorboards and other substrates with joints.
- Thicknesses up to max. 10 mm are allowed for old mastic asphalt screeds, chipboard P4 – P7 or OSB/2 – OSB/4 installed in floating technique. Priming with anhydrous primers must be applied here, e.g. with UZIN PE 414 Turbo (2 coats), UZIN PE 460 or UZIN KR 410, each sanded.
- The minimum thickness on gritted reactive resin primer is 3 mm.
- The minimum thickness beneath wood flooring is 3 mm. Adequate drying of the smoothing compound prior to bonding wood flooring is especially important.
- Do not use in exterior or wet areas.
- Grinding gypsum smoothing compounds creates very fine micro-dust. Vacuuming with a powerful industrial vacuum cleaner is mandatory to creating a good bond between the smoothing compound, adhesive and floor covering.
- Smoothing compound must not enter between insulation and heating pipes because of the risk of corrosion. This applies in particular for heating pipes from galvanized steel. Insulation may only be cut off after smoothing.
- Follow the generally acknowledged rules of the trade and technology for the installation of floor covering or wood flooring of the respective applicable national standards (e.g. EN, DIN, OE, SIA, etc.). The following standards and bulletins represent supporting information and are recommended for special attention:
  - DIN 18 365 “Working with floor covering”, Ö-Norm B 2236
  - DIN 18 356 „Working with wood flooring”, Ö-Norm B 2218
  - TKB publication “Assessment and preparation of substrates for floor covering and wood flooring installation”
  - BEB publication “Assessment and preparation of substrates”

Protection of the workplace and the environment:

GISCODE CP1, gypsum smoothing compound. The use of skin protection lotion is recommended as a rule. Store out of the reach of children. Wear dust mask and, if necessary, protective gloves when mixing. Provide thorough ventilation during and after application / drying! Do not eat, drink or smoke while working with the product. In the event of contact with the eyes or skin, rinse immediately with plenty of water. Do not dispose of into the sewer system, open water or the soil. Clean tools with water and soap immediately after use.

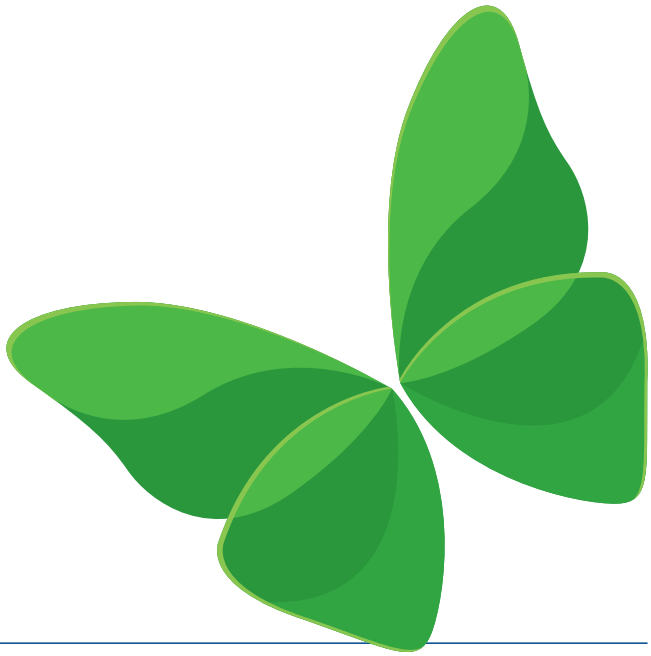
EMICODE EC 1 PLUS – Very low-emission – tested and classified according to GEV guidelines. To the best of current knowledge, does not emit any relevant emissions of formaldehyde, harmful substances or other volatile organic compounds (VOCs). Odourless as well as ecologically and physiologically harmless when fully dried.

The basic prerequisites for optimal room air quality after floor covering work consist of installation conditions conforming to standards and well-dried substrates, primers and levelling compounds.

For allergy information, call +49 (0)731 4097-0 (Germany).

Disposal:

Collect and reuse product residues wherever possible. Do not dispose of into the sewer system, open water or the soil. Paper sacks emptied from any residues can be recycled. Collect product residues, mix with water, allow to harden and dispose of 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.