

Exterior Surfacers

# codex NC 395

Free-flowing cement flooring compound for thickness from 3 – 50 mm, interior and exterior

## Description:

For preparation work on gradients, for smoothing, levelling, ramping and improving floor surfaces in interior and exterior locations.

## Suitable for/on:

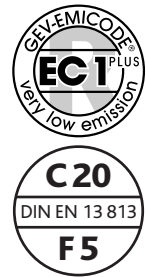
- ▶ producing flat, sound, prepared surfaces, including with slight gradients, for ceramic tiling, natural and artificial stone, floor coverings, etc.
- ▶ cement screeds, concrete slabs, terrazzo, stone and ceramics
- ▶ existing floors with well-bonded residues of adhesives and levelling compounds
- ▶ balconies, terraces, access ways, etc. as well as in damp or wet areas with, if necessary a top seal-coat
- ▶ underfloor heating systems
- ▶ exposure to castor wheels in accordance with DIN EN 12 529
- ▶ heavy wear domestic and commercial locations

## Product Properties / Benefits:

Plasticised dry powder mortar with special medium grade aggregate. When mixed with water, produces a free-flowing, plasticised, hydraulic-setting smoothing compound that is also for exterior use.



|   |                         |
|---|-------------------------|
| <b>CE</b>   |                         |
| UZIN UTZ AG<br>Dieselstraße 3<br>D-89079 Ulm<br>07  |                         |
| EN 13 813 CT-C20-F5<br>Cementitious levelling<br>compound for<br>substrates in interior<br>and exterior locations |                         |
| Fire resistance   | <b>A 1<sub>fl</sub></b> |
| Compressive strength  | <b>C 20</b>             |
| Tensile strength  | <b>F 5</b>              |



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

- ▶ For thickness from 3 – 50 mm
- ▶ Pumpable and self-smoothing
- ▶ For gradients up to approx. 4 %
- ▶ Rapid setting and drying
- ▶ Very low stress
- ▶ High compressive and tensile strength
- ▶ Waterproof and frost-resistant
- ▶ Good absorbency
- ▶ Low chromate content
- ▶ EMICODE EC 1 R PLUS/Very low-emission

## Technical Data:

|                          |   |
|--------------------------|---|
| Packaging:               | paper sack  |
| Packsize:                | 25 kg   |
| Shelf life:              | min. 12 months                                      |
| Required water quantity: | 4.0 – 4.5 litres per 25 kg sack                     |
| Colour:                  | grey  |
| Consumption:             | approx. 1.8 kg / m <sup>2</sup><br>per mm thickness |
| Working temperature:     | min. 5 °C / 41 °F at floor level                    |
| Working time:            | approx. 30 minutes*                                 |
| Set to foot traffic:     | after 2 – 3 hours*                                  |
| Ready for covering:      | after approx. 24 hours*                             |

\* At 20 °C / 68 °F and 65 % rel. humidity at 10 mm thickness.

**Subfloor Preparation:**

The substrate must be dry, load-bearing, free from cracks and free from materials that would impair adhesion. Any prospect of surface distortion must be excluded as far as is possible.

Thicker, bonded levelling coats require a very sound and well-keyed surface. Brush, abrade, grind or shot-blast to remove any soft or weakly bonded surface areas, remove loose material and thoroughly vacuum the surface.

Prime interior and exterior, absorbent, cement-based substrates with Primer codex Fliesengrund. On non-absorbent, dense or very smooth surfaces, prime with codex PE 370.

As a sealer-primer (e.g. on substrates direct to ground or those with high residual moisture content), apply two coats of 2-Component Epoxy Primer-Sealer UZIN PE 460 and grit the second coat. Always allow primers to dry thoroughly. Refer to the Product Data Sheets for the products used.

**Application:**

1. Put 4.0 – 4.5 litres of cold, clean water into a clean container. Sprinkle in the sack contents (25 kg) whilst stirring vigorously and blend to a free-flowing, lump-free mix. Use mixing equipment fitted with a levelling compound mixing paddle. Do not mix too thin.
2. Pour out the mix onto the surface and distribute evenly using a smoothing trowel or the screed rake. Where possible, spread to the desired thickness in one operation. If necessary, apply to gradients using pre-fixed guides.
3. Drying time at 20 °C/68 °F and 65 % rel. humidity, 1 day per 10 mm thickness. Sanding off with 40-60 grade sandpaper improves surface quality and absorbency.

**Consumption:**

| Thickness | Consumption                     | Coverage per 25 kg sack    |
|-----------|---------------------------------|----------------------------|
| 3 mm      | approx. 5.5 kg / m <sup>2</sup> | 4 – 5 m <sup>2</sup>       |
| 5 mm      | approx. 9 kg / m <sup>2</sup>   | 2 – 3 m <sup>2</sup>       |
| 10 mm     | approx. 18 kg / m <sup>2</sup>  | 1 – 2 m <sup>2</sup>       |
| 15 mm     | approx. 27 kg / m <sup>2</sup>  | less than 1 m <sup>2</sup> |

**Important Notes:**

- ▶ When using in underwater areas, obtain technical advice.
- ▶ Shelf life min. 12 months in original packaging when stored in dry conditions. Tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum conditions are 15 – 25 °C/59 – 77 °F and relative humidity below 75 %. Low temperatures, high humidity and greater thickness delay, whilst high temperatures accelerate the setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- ▶ The filled surface has to be covered with e.g. tiles, natural stone or epoxy sealers.
- ▶ Fit adequately wide expansion strips to adjoining structures.
- ▶ Pumpable with continuous operation mixer-pumps, such as type PFT-T 2 E.
- ▶ For thicknesses above 20 mm, the mix can be extended up to 40 % by weight with UZIN sand aggregate or screed sand (grade 0 – 4 mm or 0 – 8 mm).
- ▶ The grade of the screed sand affects the strength of the compound. When building up coats, allow the first coat to dry for 24 hours, prime with codex Fliesengrund and apply the following coat after 3 – 4 hours.
- ▶ Protect freshly prepared surfaces from draughts, direct sunlight and influences of heat or wetness (rain).
- ▶ The following standards are applicable and especially recommended:
  - DIN 18 352 "Working with large and small format tiling"
  - DIN 18 157 "Ceramic tile installation using the thin-bed method"
  - ZDB publications:
    - "Bonded damp-proofing"
    - "Coverings on cement screeds – heated"
    - "Coverings on cement screeds – unheated"
    - "Coverings on calcium sulphate screeds"
    - "Exterior coverings"
    - "Interface co-ordination"
  - BEB publications:
    - "Assessment and preparation of substrates"

**Protection of the Workplace and the Environment:**

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 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).

**Disposal:**

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty paper bags /plastic containers are recyclable. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.