Product Datasheet

1-C Flex-Sealer-Slurry

CODEX NC 210

Flexible, one component, bonded seal-coat under ceramic tiling

APPLICATIONS

1-component dispersion-cement sealer for structures exposed to dampness and wetness prior to installation of large and small format ceramic tiles, natural and artificial stone on interior and exterior walls and floors.
For load class A and B in areas (wall surfaces) regulated by building authorities, with general test certificate by building authorities (abP) in accordance with the testing principles for sealing compounds to be processed in liquid condition in combination with tiles and slab coverings.
For waterproofing according to:
DIN 18534, waterproofing of interior areas according to W0-I to W3-I.
DIN 18531-5, for balconies, loggias and arcades.
DIN 18535-3, for tanks and basins of water impact class W1-B, W2-B and crack class R1-B.
EN 14891, meets the requirements CM O1 P.
ZDB bulletin for the load class A and B, A0 and B0.
As a filler primer in the floor area on substrates containing joints, e.g. wooden floorboards.

LEED: Meets the LEED requirements in IEQ Credit (4.1) Low Emitting Materials (LEED v4)



PRODUCT BENEFITS/FEATURES

- One-component
- Smooth and easy to apply
- Flexible and crack-bridging
- Waterproof yet moisture vapour permeable
- Resistant to frost and ageing
- With general construction approval test certificate

SUITABLE FOR USE ON

- Balconies and patios with a slope > 1.5%
- Swimming-pools and their surrounding areas
- Showers, saunas and therapy basins
- Interior sealing of service water tanks
- Residential and commercial areas

SUITABLE ON

- Dense and smooth substrates as bonding and contact layer
- Cement and calcium sulphate screeds
- Concrete, masonry, porous concrete
- Plaster (MG II & III), dry construction boards
- Electrical direct underfloor heating
- Warm water underfloor heating systems

TECHNICAL SPECIFICATIONS

Pack type	paper bag
Pack size	15 kg
Shelf life	6 months
Color	grey
Ideal working temperatures	+ 5 to + 25 °C
Water quantity required	4.2 - 5.4 litres per 15 kg bag
Working Time/ Pot Life	approx. 1 hour*
Minimum dry coat thickness	2 mm
Drying time 1st coat	after approx. 5 hours*
Drying time 2nd coat	after approx. 5 hours*
Set to foot traffic	after approx. 5 hours*
Ready for covering	after approx. 5 hours*
Burning behaviour	B2
Consumption	3 - 3.5 kg/m²

*At 23 °C and 50 % rel. humidity.

GEV-EMICODE EC 1 PLUS very low emission

CE

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CODEX NC 210

SUBSTRATE PREPARATION

Test the substrate in accordance with applicable standards and notices and report any deficiencies. In order to test the suitability of the substrate for the intended load classes, the requirements of the ZDB data sheet "Composite seals", of DIN 18 531, DIN 18 534 and DIN 18 535 must be observed.

The substrate must be firm, dry, flat, free of cracks, clean, load-bearing and free of materials that could affect adhesive strength.

Depending on the water impact class, moisture-sensitive substrates (W0-I and W1-I) may be used or moisture-insensitive substrates (W2-I and W3-I) are required.

Mechanically prepare smooth concrete surfaces, adhesion-reducing or weak layers and clean dust-free, if necessary. Prepare substrate according to type and properties with suitable primers and levelling compounds from the codex range of products. Recesses, e.g. blow holes, open cutting butt and grouting joints, chips, must be closed or covered with suitable materials. Flow screeds must be ground, vacuumed and primed. Allow primers to always dry completely. Wet cementitious, highly absorbent substrates matt damp or prime first with codex NC 210 priming slurry.

The suitable codex sealing tapes, sealing corners and sealing collars must be selected depending on the water impact class / load class.

Refer to the product data sheets for other codex products used.

APPLICATION

1. According to desired consistency, put 4.2 – 5.4 litres of clean water into a clean bucket, sprinkle in the bag contents whilst stirring vigorously and mix to a smooth, lump-free mortar.
2. Before applying the surface sealer, codex sealing tape, codex sealing corners and codex sealing sleeves must be bonded at all required locations with codex NC 210.
3. Follow this by spreading codex NC 210 in at least two layers with a wet thickness of min. 1.2 mm each generously onto the substrate. For example, spread with a 4 mm tooth profile and close the ridges to form a closed coat. codex NC 210 can also brushed on with a mason's brush in several applications while observing the minimum dry coat thickness of 2 mm. With 2 applications of 1.2 mm wet thickness each (= 1 mm dry coat thickness) the minimum dry coat thickness of 2 mm is reached.
4. After complete drying of the final seal-coat, small and large format tiles can be laid with codex thin-bed mortars that meets the requirements of class C2 according to DIN EN 12004.

IMPORTANT NOTES

- Store in a cool and dry place. Carefully and tightly reseal opened packaging and use the contents as quickly as possible.
- Optimum application conditions are + 15 to + 25 °C, relative humidity below 75%. Do not use at below + 5 °C or above + 30 °C. Low temperatures and high humidity will lengthen, whilst high temperatures and low humidity will shorten the setting- and drying- times. Protect freshly applied material approx. 24 hours against heavy rain, infiltration water, frost and direct exposure to light.
- Ensure full bedding when installing the tile and slab covering in combination on the sealing. Use appropriate application technique for this purpose.
- Statically stable overall construction design must be ensured for swimming pools and water tanks.
- Obtain application consulting for areas with increased exposure to chemicals and acids as well as on wood or chipboard panels, metal and plastics.
- Clean tools with water while residues are fresh. Cured material can be removed only mechanically.
- The following apply as well, amongst others, or are recommended for special consideration:
  - DIN 18 352 "Tile and slab work"
  - DIN 18 157 "Ceramic tiling work using the thin-bed method"
  - DIN 18 531-5 "Balconies, loggias and arcades"
  - DIN 18 534 "Waterproofing of interior spaces"
  - DIN 18 535 "Waterproofing of containers and basins"
  - ZDB bulletins:
    - "Composite seals"
    - "Floor coverings from tiles and slabs outside of buildings"
    - "Movement joints in covering and flooring from tiles and slabs"
    - "Interface coordination"
  - BEB bulletin:
    - "Assessment and preparation of substrates".

SEALS OF QUALITY & ECOLABELS

- Low chromate content acc. Regulation (EC) No. 1907/2006 (REACH)
- EMICODE EC 1 PLUS / Very low-emission

CONSUMPTION

Special cements, mineral aggregates, redispersible polymers and additives.

PROTECTION OF THE WORKPLACE AND 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. Use protective gloves. When mixing wear a protective dust-mask. Presents no physiological or ecological risk when fully cured.

DISPOSAL

Where possible, collect product residues and re-use. Do not allow to get into drains, sewers or ground. Empty paper packaging is recyclable. Collect waste product, mix with water, 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 datasheet invalidates all previous Information. The respective updated version of this datasheet can be found on our website: www.codex-x.com | 10/2023