PRODUCT DATA SHEET

1-Component Flex-Sealer-Slurry

codex NC 210

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

Description:

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 the load class A0 and B0 in accordance with ZDB Bulletin "Notes on carrying out composite sealing with coverings of tiles and slabs for interior and exterior use", January 2010 edition.

Suitable for / on:

- dense and smooth substrates as a bonding agent and contact coat
- balconies and terraces with a fall > 1.5 %
- swimming-pools and their surrounding areas (showers, saunas and spa-baths)
- interior sealing of drinking-water containers
- water under pressure in a static, stable overall construction
- domestic and commercial locations
- cement and calcium sulphate screeds
- heated screeds, concrete, brickwork, gas concrete, renders (MG II & III), gypsum substrates and dry construction boards
- direct electrical or warm water underfloor heating systems

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P-2004-4-407
MPA Dresden

Product Properties / Benefits:

Very highly plasticised dry powder mortar. When mixed with water, produces a smooth sealer-slurry with a consistency suitable for trowel-application. codex NC 210 allows reliable application of crack-bridging seal-coats in combination with bonded ceramic tiling.

Composition: Special cements, mineral aggregates, re-dispersible polymer powder, additives.

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

Technical Data:

Packaging:	paper sack
Packsize:	15 kg
Shelf life:	6 months
Colour:	light grey
Mixing water:	4.2 – 5.4 litres per 15 kg sack
Pot life:	approx. 1 hour*
Working temperature:	5 °C to 25 °C / 41 °F to 77 °F
Set to foot traffic / covering:	after approx. 5 hours*
Loading by water under pressure:	after 7 days*

* At 23 °C / 73 °F and 50 % relative humidity.

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codex NC 210

Substrate Preparation:

The substrate must be sound, dry, level, free from cracks, clean, load-bearing and free from materials that would impair adhesion. Test the substrate in accordance with applicable standards and notices and report any deficiencies. Mechanically prepare smooth concrete, weakly bonded or soft surface areas as required and clean until dust-free. Prepare the substrate according to type and condition with suitable primers and smoothing compounds from the codex product range. Flow-screeds must be abraded, vacuumed and primed. Always allow primers to dry thoroughly. Dampen mineral and highly absorbent surfaces or prime with a slurry-primer made from codex NC 210.

Refer to the codex Product Data Sheets for the products used.

Application:

1. According to desired consistency, put 4.2 – 5.4 litres of clean water into a clean bucket, sprinkle in the sack contents whilst stirring vigorously and mix to a smooth, lump-free mortar. Before damp-proofing the surface, corners and joints, conduits, connections, floor drains, etc. must be sealed with codex Seal Tapes / Security Sealing-Collars and codex NC 210.
2. Scratch-apply a full coat of the sealer-slurry onto the substrate, then lay on more material wet-in-wet and comb through with a 6 mm square-notch trowel to produce uniform ridges. Then immediately, and with a little more material, smooth out the ridges with a flat-edge trowel to form a fully sealed coat.
3. After the first coat is dry, repeat the procedure exactly the same for the second coat. The total dry coat thickness must be minimum 2 mm.
4. So long as the minimum thickness of 2 mm is maintained, codex NC 210 can be applied in several coats using a builder's brush.
5. After complete drying of the final seal-coat, small and large format tiles can be laid with the following codex thin-bed mortars: codex Power Plus, codex Power Fluxx, codex Power Plus Turbo, codex Power Flex Turbo, codex Power CX 3, codex Power CX 5, codex Stone SX 20, codex Stone SX 40, codex Stone SX 80.

Consumption:

Dry Coat Thickness	Consumption	Approx. coverage per 15 kg sack
min. 2 mm	3 – 3.5 kg/m²	4.3 – 5 m²

Important Notes:

- Minimum shelf-life 6 months in original packaging and in dry storage conditions. Tightly seal opened packaging and use the contents as quickly as possible.
- Optimum application conditions are 15 – 25 °C / 59 – 77 °F and relative humidity below 75 %. Do not use at below 5 °C / 41 °F or above 30 °C / 86 °F. Low temperatures and high humidity will lengthen, whilst high temperatures and low humidity will shorten the setting- and drying- times.
- For areas with high exposure to chemicals and acids, as well as wood and chipboard, metal and plastics, use the codex products in accordance with the current Product Guide or obtain technical advice.
- Avoid applying excessive material because by drying, shrinkage cracks can occur. Re-apply over any cracking that may form.
- For large and small format tiling work in conjunction with the seal-coat, ensure a solid bed and use the appropriate application method.
- Protect freshly applied surfaces from draughts, direct sunlight and sources of heat. During the setting phase, exclude any interference from water or rising water pressure.
- Use water to clean tools whilst material is still fresh.
- In addition to all relevant standards, regulations and publications, reference to the following is especially recommended:
  - DIN 18 352 "Working with large and small format tiling"
  - DIN 18 157 "Ceramic tiling work using the thin-bed method"
  - DIN 18 195 "Construction Damp-proofing"
  - ZDB publications:
    - "Bonded damp-proofing"
    - "Large and small format floor tiling outside of buildings"
    - "Movement joints in claddings and coverings of large and small format tiling"
    - "Interface co-ordination"
  - BEB publication:
    - "Assessment and preparation of subst

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.

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.

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