

2-C flex sealing compound

CODEX AX 220

Flexible, rapid-setting reactive sealant

APPLICATIONS

Two-component, fibre-reinforced flexible sealing compound for the protection of components exposed to moisture and wetness prior to installing ceramic tiles and slabs, natural stone and concrete slabs. Can be used on walls and floors in interior and exterior areas.

For waterproofing in accordance with:

DIN 18534, waterproofing of interior spaces from W0-I to W3-I.

ZDB Technical Data Sheet on Composite Waterproofing, W0-I to W3-I.

DIN 18531-5, for balconies, loggias and pergolas.

DIN 18535-3, for tanks and basins in water exposure classes W1-B, W2-B and crack class R1-B.

EN 14891, meets class CM O1P.

Ö-Norm B 3407, for service classes W3 to W6 (W5 without increased chemical exposure).

As a trowel-applied primer for floor areas on jointed substrates such as wooden floorboards.

SUITABLE FOR USE ON

- ▶ Balconies and patios with a slope > 1.5%
- ▶ Swimming pools and their surrounding area
- ▶ Shower facilities, saunas and therapy basins
- ▶ Basins and tanks up to 10 m water depth

SUITABLE ON

- ▶ Cement and calcium sulphate screeds
- ▶ Concrete, waterproof concrete, lightweight concrete
- ▶ Masonry, porous concrete, plaster (MG II & III), gypsum plaster
- ▶ Gypsum cartons and gypsum fibreboards, cement fibreboards
- ▶ Underfloor heating



PRODUCT BENEFITS/FEATURES

- ▶ Smooth and easy to process
- ▶ Fibre reinforced and low shrinkage
- ▶ Reactive through-drying
- ▶ Flexible and highly crack-bridging
- ▶ Suitable for trowel, roller or brush
- ▶ Waterproof and frost-resistant
- ▶ With general test certificate by building authorities

TECHNICAL SPECIFICATIONS

Pack type	plastic bucket + paper bag
Pack size	22 kg = 11 kg A + 11 kg B
Shelf life	comp. A 9 months, comp. B 12 months
Color component A	grey-brown
Color component B	white
Ideal working temperatures	+ 5 °C to + 25 °C
Mixing ratio	A : B = 1 : 1
Working Time/ Pot Life	approx. 1 hour*
Minimum dry coat thickness	2 mm for DIN 18534, DIN 18531-5, DIN 18535-3; 2.3 mm for DIN 18533-3
Drying time 1st coat	after approx. 2 hours*
Drying time 2nd coat	after approx. 2 hours*
Set to foot traffic	after approx. 3 hours*
Consumption	approx. 3.3 kg/m ² at 2 mm thickness approx. 3.8 kg/m ² at 2.3 mm thickness

*At 23 °C and 50 % rel. humidity.



SUBSTRATE PREPARATION

Inspect substrates in accordance with applicable standards and technical data sheets, and raise any concerns in the event of defects. To assess the suitability of the substrate for the intended stress classes, the specifications set out in the ZDB technical data sheet 'Composite waterproofing', as well as DIN 18 531, DIN 18 534 and DIN 18 535, must be observed, amongst other things.

The substrate must be solid, dry, level, free from cracks, clean, load-bearing and free from substances that impair adhesion.

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

Smooth concrete surfaces, as well as layers that reduce adhesion or are unstable, must be pre-treated mechanically where necessary and cleaned to remove all dust. Prepare the substrate using suitable primers and levelling compounds from the codex product range, depending on its type and condition. Depressions, e.g. voids, open butt and expansion joints, and spalling, must be filled or covered with suitable materials. Self-levelling screeds must be sanded, vacuumed and primed. Always allow primers to dry thoroughly. Cementitious, highly absorbent substrates should be moistened to a slightly damp condition before application or pre-coated with a priming slurry made from codex AX 220.

For critical substrates, the codex UX 410 reinforcement fabric may be trowelled into the first layer of the waterproofing for reinforcement.

Depending on the water exposure class/service class, the appropriate codex sealing tapes, sealing corners and sealing collars must be selected.

Waterproofing accessories for stress classes A and A0:
(corresponds to water exposure classes W1-I and W2-I without chemical exposure)

codex DB 140 with sealing corners, codex sealing tape with sealing corners, codex wall sealing sleeves, codex floor sealing sleeves

Joint bonding with: codex AX 220, codex SK 100

Sealing accessories for exposure classes A and B:
(corresponds to water exposure classes up to W3-I and W2-B)

codex sealing tape with sealing corners, codex wall sealing sleeves, codex floor sealing sleeves

Joint bonding with: codex AX 220

Please refer to the product data sheets for the codex products used.

APPLICATION

Use as priming slurry:

1. Mix codex AX 220 at a mixing ratio of 1:1 and then dilute with up to 10 % water. Primer application with normal or wide brush.

Use as sealing slurry:

1. Briefly stir the dispersion component B and pour into a clean mixing vessel. Add the powder component and mix to a lump free slurry whilst stirring vigorously.

Application for composite seals in accordance with DIN 18534, DIN 18531-5, DIN 18535-3:

1. At all corner, connection and movement joints as well as pipe leadthroughs and floor drains, codex sealing tapes, codex sealing corners and codex sealing collars are incorporated in the first coat.
2. Subsequently, apply codex AX 220 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 AX 220 can also be brushed on with a mason's brush in several applications while observing the minimum dry coat thickness of 2 mm.
3. 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, which may not be fallen short of at any point.
4. After the last sealing coat has fully dried, the following adhesive mortars and reaction resin adhesives can be used: ;
codex Power CX 1, codex Power CX 2, codex Power CX 3 grey, codex Power CX 4, codex Power CX 5, codex Power CX 7, codex Power CX 9, codex Power Plus Turbo, codex Power RX 6 Turbo, codex Stone SX 20 Trass, codex Stone SX 50 MB, codex Stone SX 80 Cristal, codex Fliesopur, codex X-Fusion, codex X-Tensive.

IMPORTANT NOTES

- ▶ Store powder component A cool and dry, dispersion component B dry and frost-free. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum processing at + 15 °C to + 25 °C, relative humidity < 75% + 25 °C. Low temperatures and high humidity will delay whilst high temperatures and low humidity will accelerate 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.
- ▶ codex AX 220 can also be sprayed on, e.g. using the Wagner Plast Coat 830.
- ▶ 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.
- ▶ Observe the generally acknowledged rules of the trade and technology for tile and natural stone laying as well as the respective applicable national standards and data sheets (e.g. EN, DIN, VOB, ÖNORM, SIA, Cerunig, etc.).

- The following standards and bulletins apply as well, amongst others, or are recommended for special consideration:
 - DIN 18 352 "Tile and slab work"
 - DIN 18 157 "Ceramic work in thin bed processes"
 - DIN 18 534 "Waterproofing for indoor applications"
 - DIN 18 531-5 "Waterproofing of roofs, balconies and walkways"
 - DIN 18 535 "Waterproofing of tanks and pools"
 - ZDB bulletins:
 - "Composite sealants"
 - "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".
 - "Guideline for the planning and execution of waterproofing with mineral sealing slurries".

SEALS OF QUALITY & ECOLABELS

- Cement-based products, low-chromate in accordance with EU Regulation 1907/2006 (REACH) (powder component)
- Solvent-free dispersion installation materials (dispersion component)
- EMI CODE EC 1 PLUS / Very low emission

CONSUMPTION

Special binders, polymer dispersion, mineral aggregates, preservation agents and additives.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Dispersion component: Solvent-free. Use of barrier cream and ventilation of the work area are recommended. Powder component: 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.

DISPOSAL

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Dispersion component: Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste. Powder component: Empty paper packaging is recyclable. Collect waste product, mix both components, allow to harden, then dispose as Construction Waste.