Product Datasheet

Liquid Sealing

CODEX AX 40

Flexible, ready-to-use composite sealant under ceramic coverings in interior Areas

APPLICATIONS

Very low-emission, ready-to-use, highly elastic emulsion-based waterproofing compound for protecting building elements exposed to moisture and water against non-pressurised water. Suitable for use as a bonded waterproofing layer prior to the installation of ceramic tiles and slabs, natural stone and concrete blocks on interior wall and floor surfaces.
For waterproofing in accordance with:
DIN 18534, waterproofing of interior spaces in water exposure classes W0-I, W1-I, W2-I (W2-I for wall surfaces only).
ZDB Technical Data Sheet, composite waterproofing W0-I to W2-I (W2-I for wall surfaces only).

SUITABLE FOR USE ON

- Showers, bathrooms and toilets
- Domestic and commercial locations
- Nursing homes and hotels
- Rooms with domestic use

SUITABLE ON

- Concrete, masonry, porous concrete
- Lime cement, cement, gypsum plaster
- Plasterboard, gypsum fibre-, dry construction boards
- Tile carrier elements
- Underfloor heating

PRODUCT BENEFITS/FEATURES

- Ready to use
- Can be rolled or trowelled
- Quick-drying
- Available in 2 colours for easy layer control
- Flexible and crack-bridging
- Waterproof
- With general building authority test certificate

TECHNICAL SPECIFICATIONS

Pack type	plastic bucket
Pack size	4 kg, 10 kg, 18 kg, 25 kg
Shelf life	24 months
Color	grey and green
Minimum working temperature	+ 5 to + 25 °C
Ideal working temperatures	+ 15 to + 25 °C
Minimum dry coat thickness	0.5 mm
Drying time 1st coat	approx. 1 hour*
Drying time 2nd coat	approx. 1 - 2 hours*
Consumption	approx. 1.3 kg/m²

*At 23 °C and 50 % relative humidity.

GEV-EMICODE EC 1 PLUS very low emission

CE

LEED contributing product

EPD

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CODEX AX 40

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 surfaces, adhesion-reducing or weak layers and clean dust-free, if necessary.

Flowscreeds must be ground, vacuumed and primed. Allow primers to always dry completely.

Heated screeds must be treated according to "Interface coordination for heated floor constructions" (heat drying, heating to accelerate readiness for covering).

Prepare substrate according to type and properties with suitable primers and levelling compounds from the codex range of products. Possibly required smoothing for levelling purposes must always be carried out before applying the composite seal.

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

APPLICATION

1. To seal corner, connection and expansion joints as well as pipe leadthroughs and floor drains, the appropriate accessories such as codex sealing tape, codex sealing corners, codex DB 140, codex DB 140 corners, codex BST 150 and codex sealing sleeves for wall/floor should be used. These are bonded in place using codex AX 40 or codex SK 100.
2. codex AX 40 is then applied undiluted in at least two coats, evenly, generously and over the entire surface. Application can be carried out by rolling (lambswool roller), brushing (flat brush) or trowelling. Once the first coat has dried, a second coat should be applied, preferably in a contrasting colour for better visual distinction. The substrate or the first sealing coat must not show through, as this indicates that too little material has been applied. For example, with two coats each having a wet film thickness of 0.4 mm, the required minimum dry film thickness of 0.5 mm is achieved.
3. Clean tools with water immediately after use.
4. Once the final sealing coat has dried completely, the following adhesive mortars and reaction resin adhesives can be used: codex Power CX 1, codex Power CX 2, codex Power CX 3, codex Power CX 4, codex Power CX 5, codex Power CX 7, codex Power CX 9, codex Power RX 4 Ultra, codex Power RX 6 Turbo, codex Power Plus Turbo, codex Stone SX 20 Trass, codex Stone SX 50 MB, codex Stone SX 80 Cristal, codex X-Fusion, codex Fliesopur.

IMPORTANT NOTES

- Store in a dry, frost-free place. Carefully reseal opened containers and use the contents as soon as possible.
- Best applied at 15–25 °C, relative humidity 75%. Cold temperatures and high humidity prolong the setting, curing and drying times; heat, dry conditions and absorbent substrates shorten them.
- Install suitable floor drains in accordance with the manufacturer's instructions for the specific application. Depending on the installation situation, seek technical advice on the connection of the composite waterproofing if necessary.
- codex AX 40 must always be applied in at least two coats, in accordance with the 'Composite Waterproofing' technical data sheet, with a total dry film thickness of at least 0.5 mm at every point. If necessary, apply a further coat to achieve the minimum film thickness.
- Drying and strength development depend on climatic conditions. Do not lay tiles until the final sealing layer has dried completely.
- For areas subject to increased chemical and acid exposure, as well as on wood, chipboard, metal and plastics, use codex products in accordance with the current product overview, or seek technical advice.
- Observe generally accepted rules of the trade and technology for the laying of tiles and natural stone, as well as the applicable national standards and guidelines (e.g. EN, DIN, VOB, ÖNORM, SIA, SPV, etc.).
- The following standards and guidelines, amongst others, are also applicable or recommended for particular attention:
  - DIN 18 352 "Tiling and slab work"
  - DIN 18 157 "Execution of ceramic work using the thin-bed method"
  - DIN 18 534 "Waterproofing of interior spaces"
  - DIN 18 531-5 "Balconies, loggias and pergolas"
  - DIN 18 534 "Waterproofing of tanks and basins"
  - ZDB Leaflets:
    - "Composite waterproofing" "Tile and slab floor coverings outside buildings"
      "Expansion joints in tile and slab cladding and coverings"
    - "Interface Coordination"
  - BEB Technical Information Sheet:
    - "Assessment and Preparation of Substrates".

SEALS OF QUALITY & ECOLABELS

- Solvent-free
- EMICODE EC 1 PLUS / Very low emission
- European Model EPD
- Suitable for sustainable building certifications according to: DGNB, QNG, BNB, BREEAM, LEED

CONSUMPTION

Polymer dispersion, preservation agents, mineral aggregates, additives and water.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Solvent-free. Use of barrier cream and ventilation of the work area are recommended. When fully dried, has a neutral odour and presents no physiological or ecological risk.

DISPOSAL

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. 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.

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 | 05/2026