Product Datasheet

2-Component Silicate Resin

CODEX ER 500

Low-odour casting and bonding resin for the quick restoration of cracks as well as bonding, filling and repairs

APPLICATIONS

codex ER 500 is a versatile 2-component silicate resin on a sodium silicate PUR base for friction sealing of cracks and joints in screeds as well as for grouting, filling, bonding and repairing mineral-based substrates. For heavy wear in residential and industrial areas, indoors and outdoors.

SUITABLE FOR

- Friction-sealing casting of narrow and wide joints and cracks in screeds and concrete
- Bonding of angle rails, profiles and rods from metal, wood or plastic, or similar to the floor
- Repairs on concrete, ceramics, stone, or similar; for example, also for setting stair repair angles
- Use as installation and repair resin in building construction
- For domestic and industrial areas

SUITABLE ON

- All standard construction substrates
- Hot water underfloor heating

PRODUCT BENEFITS/FEATURES

- Low-odour
- Very rapid hardening
- Partial quantities easily mixable
- Processing without mixing tools
- Adjustable consistency

TECHNICAL SPECIFICATIONS

Pack type	plastic bottles
Pack size	300 ml c. A 300 ml c. B + 20 corrugated links
Box/ PU	6 sets consisting of A+B
Shelf life	12 months
Color	mixed = yellowish
Ideal working temperatures	15 - 20 °C at floor level
Mixing ratio	A : B = 1 : 1
Working Time/ Pot Life	6 - 8 minutes*
Ready to be worked on	after approx. 45 minutes
Final strength	after approx. 24 hours

*At 20 °C and 65 % relative humidity.

GEV-EMICODE EC 1 PLUS very low emission

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SUBSTRATE PREPARATION

The substrate or the surface of the parts to be bonded must be sound, dry, clean and free from materials (dirt, oil, grease), that would impair adhesion. Any adhesion-reducing or unstable layers (e. g. release agents or loose screed residues) must be removed by chiselling off, sanding or cutting. Dense, smooth and metallic substrates must be degreased and sanded. The bond to metals or plastics must be tested in a preliminary test.

The cracks must be widened in the direction of propagation, depending on the crack width. Then make incisions at 25 cm intervals across the crack. The cutting depth must be approx. half of the screed thickness, but at least one third. Do not damage the heating elements in heated constructions. Vacuum the cuts with a powerful vacuum cleaner, then insert corrugated links into the cross sections.

Refer to the product data sheets for other products used.

APPLICATION

1. Pour contents of the component A bottle into the contents of the component B bottle and close it. Then shake vigorously for 15 seconds.
2. The mixed material hardens continuously, not suddenly. For fluid applications, therefore, process within 4 minutes. For wide joints or bonding work allow the material to become slightly stiff, e.g. wait 3 minutes and then process quickly. Note the short pot life.
3. The material can be extended with quartz sand, e.g. UZIN Silica Sand 0.8.
4. Sand any introduced resin with UZIN Silica Sand 0.8 while still damp to achieve a good bond with subsequent materials. Vacuum loose sand after setting.
5. Clean tools immediately after use.

IMPORTANT NOTES

- Store original containers in a cool and dry place. Do not store below +10 °C. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- Optimum processing at 15 - 20°C and relative humidity below 65%. Low temperatures extend the working time and delay setting and finishing work. High temperatures shorten the working time and accelerate setting and finishing work. Warm the material to room temperature in winter in good time.
- Do not use in outdoor areas with direct exposure to light, as the material will yellow.
- Caution: Epoxy material may warm up significantly in the container after mixing. Therefore, process immediately; do not leave unattended after mixing; and move outdoors to complete reaction.
- Close cracks and joints in screed only after the screed is ready for covering, i.e. the permissible max. residual moisture has been reached and further development of shrinkage cracks is not expected.
- For substrates with underfloor heating, care must be taken not to damage the heating elements when cutting.
- The following standards and bulletins, amongst others, represent supporting information and are recommended for special attention:
  - DIN 18 352 "Tiling work"
  - DIN 18 332 "Working with natural stone"
  - BEB bulletin "Assessment and preparation of substrates"
  - Bulletin "Interface coordination for heated floor constructions"

SEALS OF QUALITY & ECOLABELS

- Solvent-free
- EMICODE EC 1 PLUS / Very low-emission

CONSTITUENTS

Component A: sodium silicate, Component B: MDI isocyanate

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Solvent-free. Non flammable. Comp. A: Requires no special protection or precautions in general use. Comp. B: Contains diphenylmethane-diisocyanate (MDI). Harmful on inhalation. Irritating to eyes, respiratory system and skin. There is limited evidence of a carcinogenic effect for respirable vapours of MDI. Harmful: May cause damage to organs through prolonged or repeated exposure. May cause sensitisation by inhalation and skin contact. Provide good ventilation. Use barrier cream, protective gloves and safety-goggles. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Observe safety information on product label as well as safety data sheet. Once cured, 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. Therefore collect waste material, mix both components and 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: Link. | 01/2022