Product Datasheet

1-component hybrid structural adhesive

CODEX SK 100

Water-resistant 1-component hybrid sealing and structural adhesive, ready for use

APPLICATIONS

1-c hybrid adhesive for laying tiles, marble and natural stone, concrete profiles, rails, wooden strips, window sills, metal, plastic, etc.; can be used on walls, floors and ceilings, in-doors and outdoors.

LEED: Meets the LEED requirements in IEQ Credit (4.1) Low Emitting Materials - Adhesives and Sealants (LEED v4)

SUITABLE FOR USE ON

- Tiles, ceramics
- Natural stone
- Adhering of codex sealing strips
- Tile support elements, hard foam
- Polystyrene
- Many metals
- Plastics
- Hard PVC
- Epoxy resins
- Epoxy plates
- Painted wood

PRODUCT BENEFITS/FEATURES

- Very good integration of nonwovens
- Excellent adhesion on many substrates
- Also for use on slightly moist substrates
- Suitable for painting
- Adhesive compensates tensions
- Low-slump

SUITABLE ON

- Tiles, ceramics
- Natural stone
- Tile support elements, hard foam
- Polystyrene
- Various metals
- Plastics
- Hard PVC
- Epoxy resins
- Epoxy plates
- Painted wood
- Concrete

TECHNICAL SPECIFICATIONS

Pack type	cartridge
Pack size	290 ml
Shelf life	18 months
Color	grey
Density	1.5 kg/dm³
Minimum working temperature	+ 5 to + 35 °C
Substrate temperature	at least 10 °C
Temperature resistance	from - 40 to + 100 °C
Setting time	approx. 2 mm / 24 hours*
Shore A Hardness (DIN 53 505)	approx. 50

*At 23 °C and 50 % relative humidity.

GEV-EMICODE EC 1 PLUS very low emission

codex | A brand of Uzin Utz Group
GB | Uzin Utz UK Ltd. | Unit 2, Mitchell Court | Central Park, Rugby | Warwickshire, CV23 0UY | Phone +44 1788 530 080 | Fax +44 1788 536 508 codex.uk@uzin-utz.com | www.codex-x.com
DE | codex GmbH & Co. KG | Heuweg 5/1 | 89079 Ulm | Tel +49 731 927093-0 | Fax +49 731 927093-190 | info@codex-x.de | www.codex-x.com

CODEX SK 100

SUBSTRATE PREPARATION

The bonding surfaces have to be firm, load-bearing, clean, dry, free from grease and dust and have to be cleaned with cleaning alcohol, if necessary. The substrates and the materials to be adhered must be compatible with the structural adhesive. Components such as bitumen, tar or other release agents must not be present. If necessary, adhesion and compatibility have to be verified with an adhesion test. An adhesion test is required on coated substrates to ensure compatibility, as e.g. coating substances containing acrylic may cause plasticiser migration which can result in reduced adhesion. Old adhesives / sealants as well as other substances affecting adhesion must be completely removed.

Observe the product data sheets of any other products used.

APPLICATION

1. Cut the cartridge open above the threaded neck and screw on the nozzle tip cut at an angle.
2. Spread codex SK 100 on the substrate or joining part without bubbles and with good coverage. Depending on adhesive area, material expansion, tension and mechanical load, a layer thickness of 1 – 3 mm is recommended. For full-surface adhesive application, the adhesive can be spread with a fine notched trowel, flat trowel, etc.
3. Place the product to be bonded into the fresh adhesive layer and press it down firmly. Large-area application of nonwovens or nonwoven sheets must be applied over the entire area and without cavities; firmly press down the parts to be joined with the smooth side of the trowel. Avoid trapping any air in the adhesive.
4. Adhesive that has not yet cured can be removed with cleaning alcohol while fresh. Once it has cured, it can only be removed mechanically.

IMPORTANT NOTES

- The minimum shelf life refers to the original container with dry and frost-free storage at a temperature between + 5 °C and + 25 °C. Opened containers must be closed tightly and the contents used soon. If the products are stored and/or transported for extended periods (several weeks) at higher temperature / humidity, reduction of the shelf life or changes of material properties cannot be ruled out.
- Drying takes place by curing through humidity. The drying and curing time does therefore not only depend on temperature and especially humidity but also significantly on the application thickness and condition of the bonding surfaces. With groove depths e.g. over 15 mm, the curing time may be significantly longer. Fast drying and solidification can be expected from contact with air or if a bonding surface is absorbent or permeable. Dry or non-absorbent substrates as well as greater thicknesses delay drying to 3 – 5 days or more.
- Parts to be bonded must be sufficiently free from tension before bonding and adequately acclimatised to the indoor climate common for the future use.
- The adhesive allows painting over according to DIN 52 452-4. Hybrid-based products can generally be painted over with many different paint systems. The adhesive must have fully cured before painting.
- Protect bonded or filled areas from water or moisture until the adhesive has formed a leather-like skin impervious to water.
- Discolouration or bonding losses may occur on plastics containing plasticisers (e.g. soft PVC).
- When performing restoration work, old sealing compounds, paint residue and non-supportive layers must be completely removed.
- In addition to all relevant standards, guidelines and bulletins, the following are recommended for special attention: DIN 18 534 “Waterproofing for indoor applications” ZDB (Central Association of the German Construction Industry) bulletins:
  - “Guide for drains”
  - “Composite sealants”

SEALS OF QUALITY & ECOLABELS

- Solvent-free, containing methoxysilane
- EMICODE EC 1 PLUS / Very low-emission

CONSUMPTION

Silane-terminated prepolymers, mineral fillers, additives.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Solvent-free structural adhesive containing methoxysilane. Non flammable. Keep out of the reach of children. Avoid contact with eyes and skin. When curing, produces traces of methanol. Ensure good ventilation during application. Wear protective gloves and safety-goggles. After contact with skin wash 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 cartridges 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 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: www.codex-x.com | 01/2022