



# KÖSTER KB-Pox Adhesive

Technical Data Sheet J 120 005

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- Industry classification "KB-Pox" registered at the German patent office, 395 06 702

## High performance epoxy adhesive

#### Features

KÖSTER KB-Pox Adhesive is a 2 component, epoxy based, high performance adhesive. The material is thixotropic, has a paste-like consistency, contains no solvents and has a 100 % solids content. The material develops a high adhesive strength to concrete, mortar, metal, wood, and many other building materials. It develops high early strength. Vertical and over head application is possible.

#### **Technical Data**

Color of cured material grey Compressive strength EN 196-1 40.0 N/mm<sup>2</sup> Flexural strength EN 196-1 26.0 N/mm<sup>2</sup> Bond strength to concrete 3.70 N / mm<sup>2</sup> Density 1.80 g / cm<sup>3</sup> Mixing ratio by weight A:B = 4:1Pot life (+ 23 °C / 1 I) 65 min approx. 24 hours Hardening time Fully cured in approx. 7 days Application temperature + 5 °C to + 35 °C

#### **Fields of Application**

- Adhesive for KÖSTER Joint Tape
- Bonding of metal profiles to concrete
- Bonding of concrete, stone, metal, wood, GRP, and many other building products
- Installation of grout bolts, dowels, and pins (vertical and overhead)

#### Substrate

Surfaces must be clean, sound, and dry. On damp surfaces, the pull-off strength should be tested. Dust, oil, grease, old coatings, laitance, efflorescence, rust, curing compounds, wax, formwork release oil, and similar contaminants must be removed prior to application.

Concrete surfaces: If necessary, the substrate has to be sanded or shot blasted to guarantee an optimal adhesion of KÖSTER KB-Pox Adhesive.

Metal surfaces: Must be cleaned to SA 2  $\frac{1}{2}$  standard.

#### Application

KÖSTER KB-Pox Adhesive should be mixed at a minimum temperature of + 10 °C. Pre-mix each component separately. Add the B to the A component and mix until the material has a uniform, streak free appearance. For mixing use a slow rotating drill with the proper mixer, for example a BEBA type mixer or a box mixer.

#### As an adhesive for KÖSTER Joint Tape 20/30

1. KÖSTER KB-Pox Adhesive is applied to the prepared substrate on both sides of the joint so that both sides of the KÖSTER Joint Tape are embedded into the adhesive. KÖSTER Joint Tape 20 is embedded on each side at least 40 mm. KÖSTER Joint Tape 30 is embedded on each side at least 50 mm. The layer thickness of the KÖSTER KB-Pox Adhesive

- should be approx. 2 mm.
- 2. KÖSTER Joint Tape is then immediately embedded into the fresh adhesive and pressed onto the substrate using a KÖSTER Rubber Hand Roller. Make sure that the tape has good contact to the adhesive.
- 3. A second layer of KÖSTER KB-Pox Adhesive is applied on top of the KÖSTER Joint Tape so that the edges of the KÖSTER Joint Tape are covered. The edges of the KÖSTER Joint Tape 20 are embedded at least 40 mm. The edges of the KÖSTER Joint Tape 30 are embedded at least 50 mm. Apply KÖSTER KB-Pox Adhesive so that it covers the substrate next to the tape at least 20 mm.

#### As a structural adhesive

Apply the adhesive on both (prepared) substrates and press them firmly together. Do not move or stress the material until it has fully cured. Protect it from exposure to water and frost until it is fully cured. Do not apply layers thicker than 3 mm.

As a grouting anchor: Drill holes (depth =  $10 - 15 \times 10^{-2}$ ) solution diameter); clean holes (use a vacuum or dry pressurized air); fill 2/3 of holes with KÖSTER KB-Pox Adhesive; insert bolts using a rotational movement. Do not stress the bolts until the adhesive has fully cured. Protect them from exposure to water and frost until the material has fully cured.

#### Consumption

For KÖSTER Joint Tape 20: 1 kg / m, for KÖSTER Joint Tape 30: 1.5 kg / m

#### Cleaning

Fresh epoxy adhesive can be removed with KÖSTER Universal Cleaner. Cured material can only be mechanically removed.

#### **Packaging**

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5 kg combipackage

#### Storage

Store the material dry and cool; in originally sealed containers it can be stored for a minimum of 12 months.

#### Safety

Caution: A component - Irritant, B component - Corrosive, hazardous

### Safety precautions

Avoid inhaling the vapors and contact with skin. Wear suitable protective clothing, gloves and eye / face protection. Only work in adequately vented areas. After contact with skin, wash immediately with plenty of soap and water. In case of contact with eyes rinse immediately with plenty of water and seek medical assistance. When using the material do not eat, drink, or smoke. Keep away from ignition sources. For additional safety information please refer to the Material Safety Data Sheet. Observe all governmental, state, and local safety regulations when installing the material.

#### Other

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

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- Do not apply below + 5 °C or if temperatures below + 5 °C are expected within the next 24 hours.
- Do not apply the system on wet or frozen surfaces.
- Do not apply the system on dusting or weak surfaces. If in doubt, test the pull off strength.
- Cold temperatures prolong and hot temperatures shorten pot life and curing time of the epoxy adhesive.
- High levels of humidity may prevent proper curing of the epoxy adhesive.
- For application of the system as part of negative side waterproofing, please contact our Technical Service.
- In areas which are stressed by traffic, the system should be covered with protective metal plates.
- Do not add solvents, thinners, or additional fillers.
- Do not apply on concrete which is younger than 3 4 weeks. If in doubt, test the adhesion before the application.

#### **Related products**

KÖSTER Joint Tape 20 Prod. code J 820 020 KÖSTER Joint Tape 30 Prod. code J 830 020 KÖSTER Universal Cleaner Prod. code X 910 010

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