



## KÖSTER Joint Tape 20

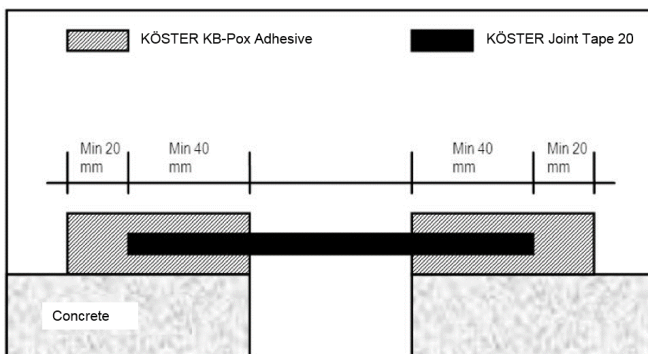
Technical Data Sheet J 820 020

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### Elastic sealing tape for waterproofing joints and irregular cracks 1 mm x 200 mm

#### Features

KÖSTER Joint Tape 20 is a thermoplastic tape for sealing expansion and dilatation joints and irregular cracks. KÖSTER Joint Tape 20 is UV resistant, highly elastic and can withstand extreme movements. The Joint Tape System consists of the KÖSTER Joint Tape 20 and KÖSTER KB-Pox Adhesive, (a 2 component epoxy based, thixotropic high performance adhesive) which are applied as a system.



#### Fields of Application

- Waterproofing horizontal and vertical dilatation joints
- Waterproofing wide and irregular cracks
- Connection joints of slabs and walls
- Suitable substrates are concrete, mortar, wood, metal, steel, aluminium, glass fiber reinforced plastics, epoxy mortar, natural and artificial stone, and many other building materials.

#### Typical uses

- Terraces and balconies
- Facades
- Wet rooms
- Foundations and curtain walls
- Concrete pipes
- Water basins
- Swimming pools
- Dilatation joints
- Tunnels
- Park houses
- Power plants
- Wastewater tanks, waste water treatment plants, etc.

#### Technical Data

Width	20 cm
Color	RAL 7045 grey
Elongation at break EN ISO 527-3	> 400 %
Tear growth resistance EN 12310-2	> 600 N / cm
Tear resistance lengthwise EN ISO 527-3	> 9 MPa
Tear resistance crosswise EN ISO 527-3	> 6 MPa
Resistance to cold/heat SIA 280/3	- 30 °C to +80 °C
Hardness (Shore A) ISO 868	80
Resistance to bitumen DIN 16726	Resistant
Peel of strength	> 20 N / 10 mm
Resistance to water pressure EN 1928	> 8.0 bar
Resistance to UV radiation SIA V280/10	> 7500 hours
Chemical resistance	Water and bitumen based waterproofing products, water, Sea water, waste water, UV radiation, hydrolysis, micro-organisms
pH resistance	pH = 2 to 10 (below + 30 °C) pH = 5 to 10 (below + 40 °C) pH = 6 to 8 (below + 60 °C)
Limited resistance to	Acids and alkalis, organic solvents such as Esters and Ketons

#### Substrate

Surfaces must be clean, dry, sound, and solid. On damp surfaces the pull off strength should be tested. Dust, oil, grease, old coatings, laitance, efflorescence, rust, curing compounds, wax, formwork release agents, and similar contaminants must be removed prior to application. Concrete surfaces: If necessary, the substrate has to be sanded, ground, or shot blasted to guarantee an optimal adhesion of KÖSTER KB-Pox Adhesive. Metal surfaces: Must be cleaned to SA 2 ½ standard

#### Application

KÖSTER Joint Tape 20 can be welded with a hot air welding machine set to between + 270 °C and + 325 °C. Welding of the tape should be carried out prior to the application. Before welding the tape, roughen the seam area with a wire brush or sandpaper. To weld the tape, place it on a level substrate and heat the overlapping ends with a hot air gun. Press the ends of the tape together firmly using the KÖSTER Rubber Hand Roller. In this way lengths greater than 20 m (the length of 1 roll) can easily be made on site. Allow the seam to cool completely before installation.

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 20 are embedded into the adhesive at least 40 mm. The layer thickness of the KÖSTER KB-Pox Adhesive should be approx. 1 - 2 mm.
2. The KÖSTER Joint Tape 20 is then immediately embedded into the fresh adhesive and pressed into the adhesive using a hand roller or a similar suited tool. Make sure that the tape has complete contact to the adhesive.

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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## Waterproofing Systems

3. A second layer of KÖSTER KB-Pox Adhesive is then applied on top of the KÖSTER Joint Tape 20 so that the edges of the KÖSTER Joint Tape 20 are over-coated at least 40 mm. Also apply KÖSTER KB-Pox Adhesive so that it covers the substrate next to the tape at least 20 mm.

Do not stress the system for at least 48 hours after application. Protect the freshly applied system from water, rain and frost until it has fully cured.

In overhead installations the tape should be protected against unintentional loosening by securing it with supports.

### Consumption

Approx. 1 kg of KB-Pox Adhesive per m Joint Tape 20

### Cleaning

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

### Packaging

J 820 020 20 m roll

### Storage

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

### Other

- 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 sanding or weak surfaces. If in doubt, test the pull off strength
- Cold temperatures prolong and warm temperatures shorten the 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 a negative side waterproofing, please contact our Technical Service
- In areas which are stressed by traffic, the system should be mechanically protected from damage with protective metal plates

Name of Chemical	Temperature	Rating
Acetic Acid (10 %)	RT	+
Sulfuric Acid (5%)	RT	+
Hydraucloric Acid (10 %)	RT	o
Diesel Fuel	RT	o
Fuel Oil	RT	o
Gasoline	RT	o
Ethyl Alcohol	RT	o
Water	95C	+
Hydrolic Oil	RT	o
IPA	RT	o
Detergent	RT	+
Lime Water	RT	+
Sea Water	RT	+
Sewage Water	RT	+
Liquid Manure	RT	+
Mineral Oil	RT	o
Sodium Hydroxide (10 %)	RT	+
Toluene	RT	-
Xylene	RT	-

All tests are made according to EN 1847.

**Rating:** + rating is given for good resistance (> 120 h)  
o rating is given for medium resistance (< 72 h)  
- rating is given for poor resistance (< 12 h)

Important note: The above stated results are according to our best knowledge and experience. Smallest changes of temperature, pressure, chemical composition, or mixtures of chemicals could change the results. Therefore each chemical should be tested in its own environment. In this test color changes and surface texture changes were not taken into account.

### Related products

KÖSTER KB-Pox Adhesive	Prod. code J 120 005
KÖSTER Joint Tape 30	Prod. code J 830 020
KÖSTER Universal Cleaner	Prod. code X 910 010
KÖSTER Spatula	Prod. code X 987 001

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