

# KÖSTER

## Joint Tape 20

### Elastic sealing tape for waterproofing joints and irregular cracks

#### Features

KÖSTER Joint Tape 20 is a thermoplastic tape for sealing joints, expansion and dilatation joints and irregular cracks.

KÖSTER Joint Tape 20 is UV resistant, highly elastic and can withstand extreme movements of the joint.

The joint tape system consists of the KÖSTER Joint Tape 20 and the KÖSTER KB-Pox<sup>®</sup> Adhesive (2C epoxy based, thixotropic high performance adhesive) which are applied as a system.

#### Technical data

Color	RAL	-	7045 grey
Elongation at break	EN ISO 527-3	%	> 400
Tear growth resistance	EN 12310-2	N/cm	> 600
Tear resistance Lengthwise	EN ISO 527-3	MPa	> 9
Tear resistance crosswise	EN ISO 527-3	MPa	> 6
Resistance to cold / heat	SIA 280/3	-	- 30 °C +80 °C
Hardness	ISO 868	Shore A	80
Resistance to bitumen	DIN 16726	-	Resistant
Peel of strength		N/10mm	> 20
Resistance to water pressure	EN 1928	Bar	> 8,0
Resistance to UV radiation	SIA V280/10	Hours	> 7500
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 alkalines, organic solvents (Ester, Keton and similar)		

#### Advantages

- UV resistant
- Permanently elastic, even at low temperatures
- Good adhesion to concrete, mortar, steel and many other building materials
- Resistant to puncturing and tearing, also easy to repair

- Easy application of adhesive and tape
- Easy to cut, weld (hot air) and join
- Resistant to constant exposure to water
- Resistant to roots

#### Field of application

- Waterproofing horizontal and vertical dilatation joints
- Waterproofing wide and irregular cracks
- Connection joints of slabs and walls
- Suited substrates are concrete, mortar, wood, metal, steel, aluminium, GRP, epoxy mortar, natural and artificial stones and many other building materials.

For example:

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

#### Surface preparation

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 optimal adhesion of KÖSTER KB-Pox<sup>®</sup> Adhesive.

Metal surfaces: They must be cleaned to SA 2 ½ standard.

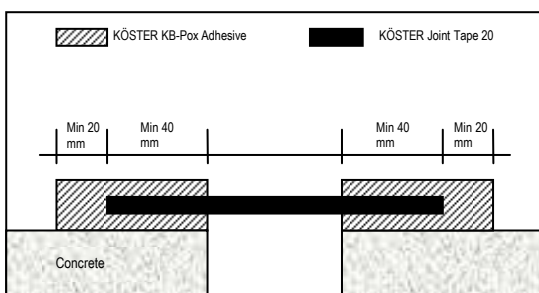
### Mixing:

Please refer to the technical guideline of KÖSTER KB-Pox® Adhesive.

### Application:

KÖSTER Joint Tape 20 can be welded with the KÖSTER Welding Machine set to 270 °C. Maximum temperature allowed for welding is 300 °C. Welding of the tape should be carried out prior to the application of the tape. Before welding the tape, roughen the seam area with a wire brush or scotch brite. To weld the tape, place it on a level substrate and press the overlapping ends of the tape together firmly after applying hot air using the KÖSTER Silicone Pressure Roller. This way, greater length than 20 m (length of 1 roll) can easily be made on site.

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 on a width of at least 40 mm. The layer thickness of the KÖSTER KB-Pox® Adhesive should be approx. 2 mm.
2. The KÖSTER Joint Tape 20 is then immediately embedded into the fresh adhesive and pressed onto the adhesive using a hand roller or a similar suited tool. Make sure that the tape has good contact to the adhesive everywhere.
3. Then, a second layer of KÖSTER KB-Pox® Adhesive is applied on top of the KÖSTER Joint Tape 20 so that the edges of the KÖSTER Joint Tape 20 are overcoated on a width of min. 40 mm. Also, apply KÖSTER KB-Pox® Adhesive so that it covers the substrate next to the tape on a width of at least 20 mm.



Do not stress the system for at least 24 – 48 hours after application. Protect the freshly applied system from water, rain and frost until it is fully cured.

### Consumption

2 kg of KÖSTER KB-Pox® Adhesive per meter of KÖSTER Joint Tape 20

### Packaging

Rolls with 20 cm width and 20 meter length.

### Cleaning of tools

Fresh epoxy adhesive can be removed with KÖSTER KB-Pox® Cleaner. Cured material can only be removed mechanically.

### Notes

- 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.

### Storage

Store the material dry and cool; in originally sealed packages, it can be stored for 12 month.

### Technical guidelines cited

KÖSTER KB-Pox® Cleaner	Art.-No.	9.08
KÖSTER KB-Pox® Adhesive	Art.-No.	8.12
KÖSTER Welding Machine	Art.-No.	8.1498
KÖSTER Silicone Pressure Roller	Art.-No.	8.1499

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.