

KOSTER Joint Tape 20

Elastic sealing tape for waterproofing joints and irregular cracks

Technical guideline / Article number 8.10
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Features:

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

KOSTER Joint Tape 20 is UV resistant, highly elastic and can withstand extreme movements of the joint. The joint tape system consists of the KOSTER Joint Tape 20 and the KOSTER KB-Pox Adhesive (2-component epoxy based, thixotropic, high performance adhesive) which are applied as a system.

Technical Data:

Width		7.87 in (20 cm)
Color		Grey
Elongation at break	EN ISO 527-3	> 400%
Tear growth resistance	EN 12310-2	> 870 psi
Tear resistance lengthwise	EN ISO 527-3	> 1300 psi
Tear resistance crosswise	EN ISO 527-3	> 870 psi
Resistance to cold / heat	SIA 280/3	-22 °F to + 176 °F
Hardness (Shore A)	ISO 868	80
Peel off strength		> 290 psi
Resistance to bitumen	DIN 16726	Resistant
Resistance to water pressure	EN 1928	> 116 psi
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 86°F) pH = 5 to 10 (below 104°F) pH = 6 to 8 (below 140 °F)	
Limited resistance to	Acids and alkalis, organic solvents (Ester, Ketone 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

Use:

- 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, aluminum, glass fiber reinforced plastics, epoxy mortar, natural and artificial stones and many other building materials.

For Example:

- Terraces and balconies
- Façades
- 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 must be sanded or shot blasted to guarantee optimal adhesion of KOSTER KB Pox Adhesive.

Metal surfaces: Must be cleaned to a near white blasted surface quality.

Mixing:

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

Application:

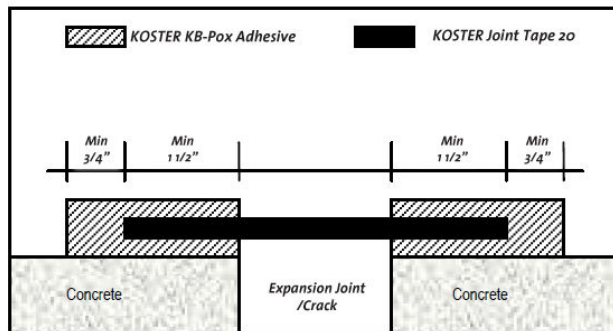
KOSTER Joint Tape 20 may be welded with a hot air welding machine set to 518°F. Maximum temperature allowed for welding is 572°F.

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 scouring pad. 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 a wooden or hardened rubber roller. This way, greater length than 65 ft (length of 1 roll) can easily be made on site.

1. KOSTER KB-Pox Adhesive is applied to the prepared substrate on both sides of the joint so both sides of the KOSTER Joint Tape 20 are embedded into the adhesive on a width of at least 1 ½" in. The layer thickness of the KOSTER KB-Pox Adhesive should be approx. 0.08 in.

2. The KOSTER Joint Tape 20 is then immediately embedded into the fresh adhesive and pressed onto the adhesive using a hand roller or a similar suitable tool. Ensure the tape has good contact to the adhesive everywhere.

3. Then, a second layer of KOSTER KB-Pox Adhesive is applied on top of the KOSTER Joint Tape 20 so that the edges of the KOSTER Joint Tape 20 are overcoated on a width of min. 1 ½" in. Also, apply KOSTER KB-Pox Adhesive so that it covers the substrate next to the tape on a width of at least ¾" in.



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.

Coverage:

1.35 lb of KOSTER KB-Pox Adhesive per foot of KOSTER Joint Tape 20.

Packaging:

Rolls with 7.87 in (20 cm) width and 65.6 ft length.

Cleaning of Tools:

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

Storage:

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

Notes:

- Do not apply below 41°F or if temperatures below 41°F 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.

Technical Guidelines Cited:

KOSTER KB-Pox Cleaner	Art. No. 9.08
KOSTER KB-Pox Adhesive	Art. No. 8.12

Limited Warranty:

KOSTER warrants that its product shall be in accordance with the specifications published in the current revision of the products data sheet. KOSTER covenants that in the event any of its products fail to meet their published specifications, KOSTER shall replace those products proved to be defective. KOSTER shall not be responsible for any incidental or consequential damages due to the breach of its warranties. Notwithstanding the foregoing, KOSTER's sole liability hereunder shall not exceed the cost of the defective product originally purchased. EXCEPT AS SET FORTH ABOVE, KOSTER MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED AND MAKES NO WARRANTY AS TO THE MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The user must determine if the product is suited for the intended use and the user must bear the risks and liabilities associated with it.