

## KÖSTER® Fugenband

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

- İTÜ, Istanbul Technical University Test Report No. 843/27.08.2007

#### **Features:**

Turkish product name > KÖSTER Flex Band

KÖSTER Fugenband is a thermoplastic tape for sealing joints, expansion and dilatation joints and irregular cracks.

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

The joint tape system consists of the KÖSTER Fugenband and the KÖSTER KB-Pox Adhesive (2C epoxy based, thixotropic high performance adhesive) which are applied as a system.



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

#### **Technical Data:**

|                                      |  |                            |
|--------------------------------------|--|----------------------------|
| Color                                | RAL 7045 grey  |                            |
| Tensile strength                     | EN ISO 527-3   | >9,0Mpa h / >6,0Mpa w      |
| Elongation at break                  | EN ISO 527-3   | % >400                     |
| Tear growth resistance               |  | % >600 N/cm                |
| Resistance to water pressure EN 1928 |  | >8,0 bar                   |
| Cold folding                         | SIA 280/3  | -30°C No cracking occurred |
| Service temperature                  | SIA V280/3+4   | -30 / +80°C                |
| Resistance to UV radiation           | SIA 280/10   | >7500 h                    |
| Aging resistance                     | SIA 280/8  | resistant                  |
| Fire class                           | EN13501-1:2002-06  | E                          |
| Thermal welding heat                 |  | 270°C                      |
| Hardness (Shore A)ISO 868            |  | 80                         |
| Resistance to bitumen                | DIN 16726  | resistant                  |
| Peel strength epoxy                  | DIN 16860  | >20 N/10mm                 |
| 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                 |

#### **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

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### **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

### **Surface Aereparation:**

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 Adhesive.

**Metal surfaces:** They must be cleaned to SA 2 1/2 standard.

### **Application:**

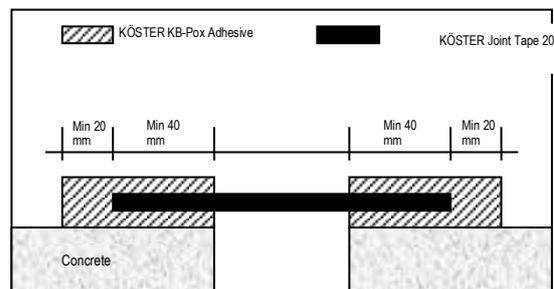
KÖSTER Fugenband can be welded with the KÖSTER Welding Machine set to 270°C. Maximum temperature allowed for welding is 300 °C. Welding of the tape should be carried out prior to the application of the tape. Before welding the tape, roughen the seam area with a wire brush or scotch brite. To weld the 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 Fugenband 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 Fugenband 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 Fugenband 20 so that the edges of the KÖSTER Fugenband 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.



### **Packaging:**

|                  |                        |
|------------------|------------------------|
| KÖSTER Fugenband | 10 cm w x 20 mt h roll |
| KÖSTER Fugenband | 20 cm w x 20 mt h roll |
| KÖSTER Fugenband | 30 cm w x 20 mt h roll |

### **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.

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## Waterproofing Systems

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- 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.

**Shelf Life:** 2 years

**Health and Safety:**

Not dangerous goods.

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Revision Date: 17-02-2026