



## KÖSTER Joint Sealant FS-V grey

Technical Data Sheet J 233

Issued: 2022-10-25

Official Test Certificate, OMTL, Hanover – resistance to diesel oil  
Kiwa Test report P 10901 according to ZTV Fug-SIB 01

### Stiff / creamy 2 component polysulphide joint sealant

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|  | <p><b>KÖSTER BAUCHEMIE AG</b><br/>Dieselstraße 1-10, 26607 Aurich<br/>17<br/>J 231<br/><b>EN 14188-2 Grey</b><br/><b>KÖSTER Joint Sealant FS-V</b><br/><b>Cold applied jointing material</b><br/><b>for streets, bridge decks,</b><br/><b>parking lots, etc.</b></p> |
| Adhesion and elongation capacity                         | Modulus of tension at 100% elongation<br>at + 23 °C ≥ 0.15 MPA<br>at - 20 °C ≤ 0.6 MPA   |
| Adhesion capacity  | no failure<br>at - 20 °C ≤ 0.6 MPA   |
| Water impermeability                                     | Modulus of tension at 100% elongation<br>at + 23 °C ≥ 0.15 MPA<br>at - 20 °C ≤ 0.6 MPA<br>No failure at -20 °C ≤ 0.6 MPA   |
| Resistance to deflection                                 | Resilience ≥ 70%<br>Volume loss ≤ 5%   |
| Durability of water impermeability under chemical attack | Passed   |
| Durability of all mandated properties against aging      | Change in modulus of tension at 100% elongation<br>≤ +/- 20%   |
| Resistance to flames                                     | Passed   |

|                             |  |
|-----------------------------|--|
| Shore A-hardness            | approx. 35                             |
| Retraction capacity         | ≥ 80 %                                 |
| Total deformation permitted | 15 %                                   |
| Application temperature     | + 5 °C to + 40 °C                      |
| Temperature Resistance      | min. + 70 °C (standard test parameter) |

The material was then tested at E100 and E140, (Elongation 100% and 140%) according to DIN EN ISO 8340:2005

No cracks or debonding  
No adhesion failure  
No cohesion failure

#### Fields of Application

KÖSTER Joint Sealant FS-V can be used to permanently and elastically seal vertical joints in below grade construction, cracks in basements, building foundations, joints in sewage treatment plants, garages, tunnels, roads, bridges, parking decks, airfields and other traffic areas, etc. It is also suitable for application on horizontal joints.

- Sealing vertical or overhead joints in underground garages, building foundations, water channels, gas stations, parking decks, etc.

- Sealing joints prior of after joint injections with KÖSTER Injection gels

#### Substrate

The flanks of the joints have to be clean, solid, dry to matt damp, and free of grease and dust. Absorbent substrates must be primed twice with KÖSTER FS-Primer 2C, non-absorbent substrates must be primed once with KÖSTER FS-Primer 2C.

#### Application

The flanks of the joints have to be clean, solid, and free of grease and dust. Substrates must be primed with KÖSTER FS-Primer 2C. Mix both components thoroughly using a slow speed mixer until a homogeneous consistency is reached, (at least 3 minutes). The joint is filled at the earliest 4 hours after priming (while the surface is still sticky) with a caulking gun, (smoothing) trowel, spatula or straight edge. Observe the DIN 18540.

#### Consumption

Approx. 1.6 kg/l void

See consumption table on next page.

#### Features

KÖSTER Joint Sealant FS-V is a flexible stiff / creamy polysulphide joint sealant. When fully cured, KÖSTER Joint Sealant FS-V is a rubbery elastic sealant with a high mechanical load capacity, good resistance to UV radiation, water, sea water, salt solutions, benzenes and mineral oils; it is root resistant, does not rot and it has very good retraction capabilities.

#### Advantages

- Highly elastic sealant
- Very good resistance to UV radiation
- High chemical resistance
- Suitable for application indoors and outdoors
- Vertical and overhead applications are possible
- Easy application with trowel, spatula or pressing gun

#### Technical Data

|                        |  |
|------------------------|--|
| Colors                 | light grey                                 |
| Mixing ratio by weight | 100 : 13 (A : B)                           |
| Pot life               | approx. 2 hours (+ 20 °C, 50 % rel. hum.)  |
| Curing time            | approx. 24 hours (+ 23 °C, 50 % rel. hum.) |
| Consistency            | stiff / creamy                             |
| Specific gravity       | approx. 1.6 kg/l                           |

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.

|                                    |      |      |      |      |      |      |
|------------------------------------|------|------|------|------|------|------|
| Joint width in mm                  | 10   | 15   | 20   | 25   | 30   | 35   |
| Thickness of joint sealant (in mm) | 8    | 10   | 12   | 15   | 18   | 20   |
| Deviation allowed (in mm)          | +/-2 | +/-2 | +/-2 | +/-3 | +/-3 | +/-4 |
| Distance of joints allowed in m    | 2-4  | 2-6  | 4-7  | 5-8  | 6-9  | 7-10 |
| Consumption kg / m                 | 0,13 | 0,24 | 0,38 | 0.60 | 0.72 | 1.12 |

### Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner.

### Packaging

J 233 004 4 kg combipackage

### Storage

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

### Safety

Wear safety gloves and goggles when working with the material. Observe all governmental, state, and local safety regulations while processing the material.

### Other

- Follow instruction of the respective KÖSTER FS-Primer 2C technical Data Sheet prior installation of the joint sealant.
- Respect the ratio between width and thickness of the applied joint sealant for the material to behave as intended.
- Applications on joints wider than 35 mm are not recommended.
- The material is delivered in combi packages with both components inside; therefore, mix thoroughly and scrape the sides of the containers with a spatula to ensure proper mixing.
- The stiff consistency of the material is required for vertical and overhead applications. Mixing must be performed with electrical power equipment.
- When working at low temperatures or after long storage periods of the material, mixing may require high-power mixing equipment.

### Related products

|                                 |                      |
|---------------------------------|----------------------|
| KÖSTER FS Primer 2C             | Prod. code J 139 200 |
| KÖSTER Joint Sealant FS-V black | Prod. code J 231     |
| KÖSTER Joint Sealant FS-H black | Prod. code J 232     |
| KÖSTER Joint Sealant FS-H grey  | Prod. code J 234     |
| KÖSTER Universal Cleaner        | Prod. code X 910 010 |

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