



KÖSTER Joint Sealant FS-V black

Technical Data Sheet J 231

Issued: 2024-01-22

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

Stiff / creamy 2 component polysulphide joint sealant

	<p>KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 17 J 231 EN 14188-2 Black KÖSTER Joint Sealant FS-V Cold applied jointing material for streets, bridge decks, parking lots, etc.</p>
Adhesion and elongation capacity	Modulus of tension at 100% elongation at + 23 °C ≥ 0.15 MPA at - 20 °C ≤ 0.6 MPA
Adhesion capacity	no failure at - 20 °C ≤ 0.6 MPA
Water impermeability	Modulus of tension at 100% elongation at + 23 °C ≥ 0.15 MPA at - 20 °C ≤ 0.6 MPA No failure at -20 °C ≤ 0.6 MPA
Resistance to deflection	Resilience ≥ 70% 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 ≤ +/- 20%
Resistance to flames	Passed

Shore A-hardness	approx. 20
Retraction capacity	≥ 80 %
Total deformation permitted	35 %
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

Chemical resistance tested with test fuels according to ZTV Fug-StB 01:

- Test liquid "Bf": 70 vol.-% isooctane with 30 vol.-% toluene
- Test liquid "Ba": 100 vol.-% FAM Test liquid DIN 51604-A
- Deicing agent "Be": 70 wt.-% propylene glycol, 25 wt.-% water, 5 wt.-% urea

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 suited 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

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, black
Mixing ratio by weight	100 : 10 (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

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

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 with a caulking gun, (smoothing) trowel, spatula or straight edge. Observe the DIN 18540.

Consumption

approx. 1.6 kg/l void

See consumption table (next page).

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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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 231 004 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 local, state, and federal safety guidelines when 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.
- 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-H black	Prod. code J 232
KÖSTER Joint Sealant FS-V grey	Prod. code J 233
KÖSTER Joint Sealant FS-H grey	Prod. code J 234
KÖSTER Universal Cleaner	Prod. code X 910 010

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