



KÖSTER Joint Sealant FS-H grey

Technical Data Sheet J 234

Issued: 2023-02-13

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

Self-levelling, elastic 2 component polysulphide joint sealant

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

Features

KÖSTER Joint Sealant FS-H is a polysulphide based elastic, pourable joint sealant in accordance with DIN 18540 for sealing joints in horizontal areas. When fully cured, KÖSTER Joint Sealant FS-H 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 properties.

Advantages

- Highly elastic sealant
- Very good resistance to UV radiation
- High chemical resistance
- Suitable for application indoors and outdoors
- Very good self-leveling ability
- Pourable directly from mixing vessel

Technical Data

light grey 100:10 (A:B) Mixing ratio by weight Pot life approx. 2 hours (+ 20 °C, 50 % rel.

hum.)

Curing time approx. 24 hours (+ 23 °C, 50 %

Consistency pourable, self-levelling Specific gravity approx. 1.65 kg / I Shore A-hardness approx. 15 Retraction capacity ≥ 80 % Total deformation permitted approx. 35 % + 5 °C to + 40 °C Application temperature Max. application slope 2% min. + 70 °C (standard test Temperature resistance 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

- 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.%

Fields of Application

KÖSTER Joint Sealant FS-H can be used to permanently and elastically seal horizontal joints in below grade construction, cracks in basements, foundations of buildings, joints in sewage treatment plants, garages, tunnels, roads, bridges, parking decks, airfields and other traffic areas, etc.

- Sealing horizontal joints in underground garages, 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) by pouring or with a caulking gun and is smoothed with a trowel or spatula.

Consumption

Approx. 1.6 kg / I void

See consumption table on 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	0.25	0.40	0.62	0.89	1.10

Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner.

Packaging

J 234 004 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.

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-V grey	Prod. code J 233
KÖSTER Universal Cleaner	Prod. code X 910 010

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