SealSealFlex JFR-SL

Self Levelling , Ultra - Low Modulus , Jet Fuel resistant Silicone Sealant for concrete to asphalt pavement Joints

SealFlex JFR-SL is a self levelling single component neutral cure silicone sealant intended for hot, cold and tropical climatical conditions . Its thick, buttery consistency allows it to be easily worked into joints.



Features

- One component, ready to use, Cold applied and Self levelling
- Very high movement capability (100 % extension and 50 % compression)
- Very good adhesion to concrete, asphalt and most substrates
- Good weather and UV resistant
- Water resistant and fast skin-over time (less than 1 hour)
- Very good flexibility (Suitable for extremely high and low temperature)
- Resistance to jet fuel, road salt and chemicals
- Formulated for use in Middle east conditions (extreme hot and cold weather)
- Meets LEED VOC Limits
- Formaldehyde free and durable resilient seal
- Non toxic, mold and mildew resistant

Application field

- Designed to seal cut and expansion joints in concrete pavements on high ways, airports, bridges, walkways, parking garages, drive ways and air craft and automobile industries, PCC joint construction sealing .
- Suitable for concrete to concrete and concrete to asphalt pavement joints

Chemical Resistance

SealFlex JFR-SL is resistant to water, road salts, seawater, alkalis, acids, cement slurry and detergents. SealFlex JFR -SL is resistant to jet fuel

SealFlex JFR -SL Specification Compliance

ASTM D 5893 Type SL
EN 14188-2 Class B, C and D
TT-S-00230C , Type I , Class A
TT-S-001543A , Class A
Meets SS-S-200E Flame Test Requirements
LEED NC 2009
ASTM C920 Type S

Technical Properties

Property	Test Method	SealFlex-JFR-SL Specification
Construction	ASTM C 639	Flowable grade smooth level
Specific gravity	ASTM D 1475	1.3
Extrusion rate	ASTM C 1183	230mL/min (minimum)
Tack free time	ASTM C 679	30 mins
Cure time	COP 049-2	24 hours (3.5mm)
Shore Hardness	ASTM D 2240 , ASTM C 661	45 Shore 00 21d
Tensile Strength	ASTM D 412	≥ 1 Mpa
Tensile Stress	ASTM D 412	≤0.10Mpa@150%elongation
Elongation	ASTM D412	≥ 1200 %
Movement Capability	ASTM C 719	+100% /-50 %
Adhesion Strength	ASTM C 794	≥5 N/mm
Resistance to weathering	ASTM C 793	Pass (No cracks)
Service Temperature		-60° C to 175 °C

engineered to perform

Application
Primer not required . For any specific requirements , consult OBS team
Proper backer rod placement to prevent three-sided adhesion

Joint Design
The spacing between joints and joint dimensions must be designed to suit the joint movement required and the movement capability of the sealant. The joint width shall be ≥ 6 mm and ≤ 25 mm. The joint depth shall between 0.5 and 0.8 of the joint width (width:depth ratio of 2 : 1 – 1 : 0.8) but always ≥ 6 mm and ≤ 13 mm. The joint shall be recessed half of the joint width but always ≥ 10 mm. For larger joints, please contact our Technical Department.

Standard joint dimensions for joints between concrete elements

Joint width (mm)	Joint depth (mm)ecessed	below surface (mm)
6	6	10
10	6	10
15	8	10
20	10	10
25	13	3

All joints must be correctly designed and dimensioned in accordance with the relevant standards before their construction. The basis for calculation of the necessary joint widths are the type of structure and its dimensions, the properties of the adjacent building materials and the joint sealing material, as well as the specific exposure of the building and the joints.

Joint edges must be thoroughly clean, sound, dry and free from any contaminants. Care should be taken to ensure that the joint is formed to the required depth, and any expansion joint filler tightly packed in place.

SealFlex JFR-SL can be applied by gun, trowel, concrete asphalt joint or crack sealing machine ,bulk joint filling machine etc.

Priming is not required with this material . If any thing specifically required , consult with the technical team of OBS

Packing
Available in std. packing kits, 600 ml , 20 L drum , 200 L drums

Storage Store materials between 10°C-50°C with careful handling to prevent damage to products. If conditions exceed these ranges, special consideration in storage must be taken. Do not store at high temperatures in direct sunlight. Shelf life under normal conditions in closed container will be 24 months.

HEALTH AND SAFETY Keep out of reach of children. Ensure to maintain good ventilation during application and drying process. In case of skin contact, wash with soap and water or a recognized skin cleaner. Avoid contact with eyes. In case of contact with eyes rinse immediately with running water and seek medical advice. If product is ingested drink plenty of water or milk. Do not induce vomiting at any time. Seek medical advice. Refer to the Material Safety Data Sheet (MSDS) for detailed information about the product and transportation and classification criteria.

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