

CIKOjoint JFR

Jet fuel resistant, pavement joint sealant

Description

CIKOjoint JFR is a high solid polyurethane resin based joint sealant for sealing horizontal expansion and contraction joints in concrete pavements having width range from 6 to 50 mm. The cured material provides very high elastomeric property with excellent resistance to spillage of oil, jet fuel and other fuels. CIKOjoint JFR is a pitch/tar extended polyurethane resin cured with hardener. It forms a tough rubber seal after curing.

Properties

- Cold applied two component systems.
- Easy to apply due to self-levelling property.
- Accommodates cyclic movement of pavement slab due to thermal expansion and contraction.
- Resistant to jet fuel, oil and hydraulic oil.
- Resistant to salts, chemicals and alkaline solutions.
- Provides excellent bond strength on a wide range of substrates.
- Low maintenance cost.
- Watertight.

Applicable standards

CIKOjoint JFR complies with Federal specification SS-S-200E Type H, BS 5212 and ASTM C920 type M, Grade P, Class 25 use T.

Application area

CIKOjoint JFR is a high quality joint sealant for exterior and interior applications. It is most suitable for,

- Runways and taxi ways.
- Fuelling area.
- Asphalts
- Concrete aprons.
- Parking and car handling sections.
- Garages and oil handling areas.
- Port and docks.

Physical properties

Type	Cold applied, two component, self-levelling polyurethane sealant
Colour	Black
Solid content	100%
Consistency	Flow able
Pot life	45-60 minutes @ 25°C
Application Temperature	+5 °C to +50°C
Service Temperature	-10 °C to +100 °C
Shore A Hardness	30 ± 5
Movement accommodation factor	25%
Elongation ASTM D412	>300%
Curing time @ 25° C	Within 48 hours (Initial)

Chemical resistance

Oil	Resistant
Fuel and Jet fuel	Resistant
Petrol and diesel	Resistant
Sewage water/chemical	Resistant
Alkalis	Resistant
Mineral acid spillage	Resistant

Coverage & joint Sizes

width (mm)	Depth (mm)	W:D ratio	Coverage (m/L)
Min. 6	6	1:1	27.5
10	10	1:1	10
15	15	1:1	4.4
20	10	2:1	5
25	12-13	2:1	3
30	15	2:1	2.2
40	20	2:1	1.25
Max. 50	25	2:1	0.8

Application instructions

Surface preparation

Clean the joint substrate to make it free from all loose particles, dust, oil grease and any other form of contamination. In case of oil spillage, proper treatment should be carried out on the surface. The joint must be free from dampness and standing water.

Placing backup rod and masking tape

Closed cell polyurethane based backup rod must be placed inside the joints. The depth of the sealant shall be maintained by properly placing the backup rod. Fix masking tape on upper face of the concrete.

Application of primer

Ensure that the surface to receive primer is sufficiently clean and free of oil, dampness and other contaminations. Apply CIKOPrimer PU on the sides of the joint using brush. Allow the primer to become tacky (20 to 45 minutes depending on ambient conditions) before applying joint sealant CIKOjoint JFR.

Over asphalt apply CIKOPrimer PU over cured CIKOPoxy Prim 14. Allow CIKOPrimer PU to become tacky before applying CIKOjoint JFR.

Mixing

The base component of CIKOjoint JFR should be mixed thoroughly using a heavy duty slow speed drill fitted with paddle and ensure a homogenous mix. Then hardener component should be poured into the base component and mixed well until a homogenous mix is obtained.

Application method

Properly mixed material can be directly poured into the primed joint and levelled to the surface of concrete. Pass a scrapper or hard paper over the surface of the applied sealant approximately 20 to 30 minutes after pouring to release the entrapped air created on surface.

Packaging

CIKOjoint JFR is available in 2.5, 4.0 & 15 litre pails.

Shelf life

CIKOjoint JFR has a shelf life of 12 months in unopened pails and if stored in accordance with CIKO instructions.

Storage

CIKOjoint JFR should be stored under enclosed shaded area at temperatures between 10 – 35°C.

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Precautions

- Not to be applied when the surface is damp or if there is standing water on the surface.
- The asphalt should be 3 months old before priming and sealing.

Health & safety

CIKOjoint JFR should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control

