



AKFIX JH 1070 POLYUREA JOINT SEALANT

1 – DESCRIPTION

AKFIX JH 1070 is a self-leveling, 100% solid, flexible, two component, 1:1 ratio, rapid curing polyurea elastomer joint and crack filler. Designed for 10 – 15% movement of an installed joint width. Cures rapidly and consistently in applications ranging from -20 °C to 60°C. Applications can be reopened to vehicle or foot traffic in 1 hour. Recommended time of cure of concrete minimum 30 days prior to installing joint filler or joint sealant.

2– PROPERTIES

- %100 solid, VOC free, no solvents
- Fast reactivity
- Return project to service in 60 Minutes
- Non sensitivity to temperature and humidity
- Excellent thermal stability
- Very good tensile and structural strength
- Resistant to petrochemicals and chemicals

3 – APPLICATIONS

- Concrete crack and repair
- Concrete joint filler
- Airports
- Roofs
- Parking lots and garages
- Industrial facilities
- Warehouse floors
- Manufacturing facilities
- Bottling and canning facilities
- Food processing facilities
- Cold storage facilities

4 – INSTRUCTIONS

- Remove all dust, debris, oil and any other contamination from the area or joint to be repaired/filled. The surface must be completely dry prior to using the sealant. Dampness and substrates with high moisture will trigger extensive curing of the sealant within a very short period of time. This may cause an excess of bubbling and foaming within the sealant. If necessary use a suitable primer for surface preparation. New concrete must be cured at least 28days.



- AKFIX JH 1070 applied with double cartridges and it have to be used in combination with special static mixer with a manual or pneumatic dispensing gun (it sets too quickly to allow hand mixing).
- Both components of the cartridge have to be bring up to a processing temperature of about 20°C, which have to held in a constant range. Before using, shake or fluff the cartridges very carefully for approx. 3 min.
- The process of dispensing should be done completely and quickly avoiding any breaks, because the material can react immediately in the static mixer and then the discharge is blocked. Maintain a steady flow of material to eliminate overlapping as this may cause bubbling within the material. Joints should be slightly over filled and shaved level to facilitate a smooth appearance.

5- PACKAGING

600 ml side by side double cartridge

First Part: 300 ml- isocyanate prepolymer component

Second Part: 300 ml- Amine component

6- STORAGE AND SHELF LIFE

Store the product in a ventilated place away from direct exposure to sunlight. Keep cartridges between 15 -25 °C for quality reasons. Shelf life of the unopened original packaging is twelve months from manufacturing date.

7- SAFETY

Contains isocyanate MDI. Avoid breathing vapors. Avoid contact with skin and eyes. Take precautions during application. Wear suitable protective clothing, gloves and eye/ face protection. Adequate ventilation of the working area is recommended.

Consult SDS for further information.

9- TECHNICAL PROPERTIES

Component properties

	Unit	Method	Isocyanate Prepolymer	Amine Resin
Density (25°C)	gr/cm ³	ASTM D 1217	1,09-1,13	1,00-1,02
Viscosity (25°C)	mPa.s	ASTM D 4878	700-800	400-600
Shelf life	months	-----	12 months	12 months



Physical Properties

	Method	Datas
Chemical structure		Iso component: Isocyanate (MDI) Prepolymer Amine component : Amine Resin
VOC content (%)	ASTM D-1259	0
Solid content (%)	ASTM D-2697	100
Gel time (min)	--	1-1,5
Tack free time (min)	--	3-5
Density (gr/cm³)	ASTM D-792	0,99-1,03
Tensile strength (MPa)	ASTM D638	≥5
Elongation (%)	ASTM D638	≥250
Hardness (Shore A)	ASTM D2240	70-75
Pull off strength (N/mm²)	ASTM D 4541	concrete: ≥4 steel : ≥5