

# JOINTSEAL-H

## Hot Poured Heavy Duty Elastic Sealant

### DESCRIPTION

BITUMAT JOINTSEAL-H is a hot poured heavy duty elastic sealant for joints and cracks. JOINTSEAL-H is compounded from ductile bitumen, elastomeric modifier, mineral stabilizers and anti-oxidation/ozone activities.

### USES

BITUMAT JOINTSEAL-H is ideal for sealing joints and cracks in horizontal concrete and masonry surfaces. It can also be used on bitumen pavements such as parking areas, garages, highways, streets and runways as a sealant. BITUMAT JOINTSEAL-H is recommended most often when setting time requirement is minimum. It will set to tack free in few minutes upon cooling.

### OUTSTANDING FEATURES

- Highly elastic and pliable. Can withstand thermal and normal structural expansion and contraction without cracking.
- Suitable for high temperatures. Will not run or flow at temperature up to 60°C.
- Quick setting time. No delays, surfaces can be ready for use in minutes.
- Durable. Lasts longer than most other sealants due to resistance to oxidation, ozone and U.V.
- Good adhesion to bitumen and concrete substrates; does not peel or pull away from crack or joints in walls.
- Extremely water resistant. Will not allow water into cracks and joints, thus protecting the substrate or base from damages.

### INSTALLATION

#### APPLICATION

The joint or crack should be clean, free of dust, dirt, loose concrete or asphalt. To enhance adhesion, prime the surface with BITUMAT BITUFAST primer. Allow primer to cure for 2-4 hours. Heat BITUMAT JOINTSEAL-H to about 195°C., avoiding overheating or localised heating. Oil heated, jacketed boiler is recommended. Pour the melted sealer directly into the joint or crack to a level flush with the surface. Protect from traffic until BITUMAT JOINTSEAL-H has cooled down.

The sealer contains mineral stabilizers that require periodical stirring during application. For best results, cracks or joints deeper than 15mm should be first filled with sand or backer rod to 15mm from top.

It is recommended to slightly sand the filled joint or crack to improve abrasion resistance. The sealer can be made solvent and jet fuel resistant by applying a liberal coat of Bitumat coal tar emulsion over the sealer.

For large projects, crack filling machines and melting boilers are recommended. Contact Bitumat Sales Dept. for details.

### COVERAGE

One kg. of BITUMAT JOINTSEAL-H will approximately fill the following linear meters according to joint dimensions (joint depth should be approximately equal to half joint width).

Joint width (mm)	Joint depth (mm)	Length filled (mts)
10.0	5.0	20.00
15.0	7.5	8.88
20.0	10.0	5.00
25.0	12.5	3.20
30.0	15.0	2.22

### STANDARDS

Conforms to ASTM-D-1190 and ASTM-D-3405.

### PACKING

45-kg kegs and 180-kg drums.

### HEALTH & SAFETY

1. Fire - Non flammable; flash point 200°C. Avoid heating above flash point as it could ignite.
2. Skin - It could cause severe burn when hot. If contact occurs, immediately cool affected area with cold water. It is recommended that a bucket of ice water be kept nearby.
3. Eyes - If contact occurs, immediately cool with cold water, then seek medical attention.
4. Protective clothing - Wear heavy leather/ cotton gloves, long sleeve shirt, shoe and long trousers, eye goggles and face mask.

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### TECHNICAL DATA

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<i>Property</i>	<i>Typical Result</i>	<i>Test Method</i>
Density, at 25°C., Kg/liter	0.99	ASTM-D-71
Heating and pouring temperature, °C	200 (Max.)	ASTM-D-1191
Penetration at 25°C, dmm	90 (Max.)	ASTM-D-1191
Flow at 60°C., mm	3 (Max.)	ASTM-D-1191
Bond at 17.8°C.	Pass	ASTM-D-1191
Resilience at 25°C., %	80 (Min.)	ASTM-D-3407
Asphalt compatibility	Compatible	ASTM-D-3407
Elongation at 25°C., %	500 (Min.)	ASTM-D-412
Resistance to sunlight (UV) (Weather-O-Meter, 2000 Hrs.)	No Erosion or cracking	ASTM-G-53
Resistance to water (Weather-O-Meter, 2000 Hrs.)	Excellent	ASTM-G-53
Resistance to mild acids and alkalis	Good	Immersion
Non-volatile, % Wt.	99.99	Evaporation at 100°C
Special additives	Contains oxidation and ozone inhibitors	
* Resistance to solvent / jet fuel	Poor	

\* Can be made resistant to jet fuel and petroleum solvents by coating with Bitumat Coal Tar Emulsion.

The information in this Technical Data Sheet is given to the best of our knowledge based on laboratory test and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee but the product itself.