

MACSEAL 6690-1PM

POLYMER-MODIFIED HOT-APPLIED JOINT & CRACK SEALANT ASTM 6690 TYPE I OR EQUIVALENT

PRODUCT DESCRIPTION

MACSEAL 6690-1PM is a premium-quality, high-performance, hot-applied, single-component joint and crack sealant.

MACSEAL 6690-1PM is a formulated blend of engineered asphalts, virgin polymers, synthetic rubbers, reinforcing fillers, anti-oxidants, and UV inhibitors.

MACSEAL 6690-1PM offers advanced low temperature bonding properties, prolonged resistance to degradation from weather, and a positive seal during the expansion and contraction of the joint or crack. It remains ductile and highly resilient at low and high service temperatures.

GENERAL PRODUCT FEATURES

- Cures to a non-tacky finish
- Can be applied over a wide range of temperatures
- Engineered for moderate to cold in-service climate temperatures
- Flexible nature allows for quick relaxation during the build-up of thermal stresses in asphalt pavements which translates to enhanced performance
- Easy to apply via gravity-fed mechanism (e.g. pour pot, walk behind units, etc.) as well as via pump and hose/wand method
- Adheres very well to both hot mix asphalt and Portland cement concrete
- Engineered specifically for oil jacketed double boiler kettles. Not recommended for direct fire melters.
- Prevents the intrusion of water and incompressibles into the cracks of asphaltic and Portland cement concrete pavements
- Compared to regular **MACSEAL 6690-1**, **MACSEAL 6690-1PM** passes the 100% cold bond extension test at -18°C versus the typical 50%, thus increasing the durability and flexibility in cold temperatures.

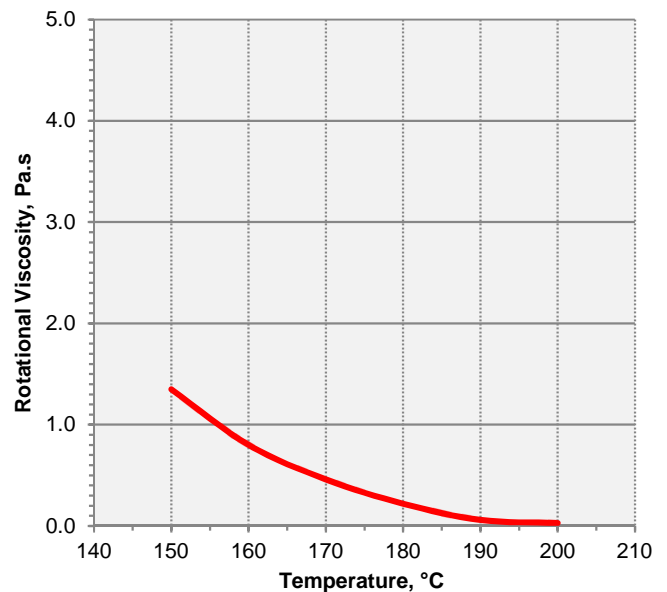
RECOMMENDED USE

MACSEAL 6690-1PM is recommended for the large-scale sealing of joints and random cracks in Portland cement concrete and asphalt pavements. It will provide good protection against repeated freeze-thaw cycles.

SPECIFICATIONS AND TYPICAL RESULTS

TEST	TYPICAL DATA	SPEC.	
		Min	Max
Flash Point (COC), °C	255	-	-
Cone Penetration, 25°C, dmm	78	50	90
Flow, 60°C, mm	1	-	10
Softening Point R&B, °C	88	80	-
Bond, 100%, -18°C, 5 cycles	Pass	5	-
Resilience, 25°C, %	54	25	60
Asphalt Compatibility	Pass	Pass	-

TEMPERATURE VISCOSITY CHART



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 ISO 9001/14001/45001

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APPLICATION GUIDELINES

For detailed **MACSEAL 6690-1PM** joint and crack preparation or specific application instructions, refer to specifying agency publications or contact an **MCA** representative.

APPLICABLE SPECIFICATIONS

MACSEAL 6690-1PM meets or exceeds: ASTM D-6690 Type I (formerly ASTM D-1190), Federal Specification SS-S-164 and amendments, AASHTO M 324-04, various State and Provincial D.O.T. specifications.

APPLICATION TEMPERATURES

Recommended pouring temperature: 185°C (365°F)

Maximum safe heating temperature: 200°C (392°F)

MELTING EQUIPMENT

MACSEAL 6690-1PM must be melted in a oil jacketed double boiler kettle equipped with a mechanical agitator and separate temperature thermometers for both the oil bath and melting vat.

COVERAGE

MACSEAL 6690-1PM weighs approximately 1.31 kg/L (10.9 lb/gal). A joint 12.7 mm x 12.7 mm (½ x ½") requires approximately 21.2 kg/100 linear meters (14.2 lb/100 linear feet).

PACKAGING, STORAGE AND HANDLING

MACSEAL 6690-1PM is available in the following packaging:

- 2 x 11 kg (25 lb) polybags in a high-strength, corrugated cardboard container. **MACSEAL 6690-1PM** in boxes should be kept in a dry environment.

CERTIFICATION OF QUALITY

McAsphalt Industries Limited is accredited to the quality management standard **ISO 9001**, the environmental management standard **ISO 14001**, and the occupational health and safety standard **ISO 45001**.

Each lot of **MACSEAL 6690-1PM** is produced using the strictest quality, safety, and environmental guidelines. Each production lot is tested to ensure it meets or exceeds all performance requirements and is delivered with a Certificate of Analysis.

PRODUCT SUPPORT

With the **MCA Advantage**, you get a partner and advisor who will consult with you about designs, specifications, technical services, processes, and material selection. By developing innovative, custom-designed products that offer additional benefits such as peak performance in unique conditions, improved field performance, and greater environmental and health benefits, the **MCA Advantage** provides significant long-term cost savings, resulting in lower total cost of ownership.



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