

**MACSEAL 6690-1**

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

**PRODUCT DESCRIPTION**

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

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

**MACSEAL 6690-1** 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 a gravity-fed mechanism (e.g. pour pot, walk behind units, etc.) as well as via a 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 incompressible matter into the cracks of asphaltic and Portland cement concrete pavements

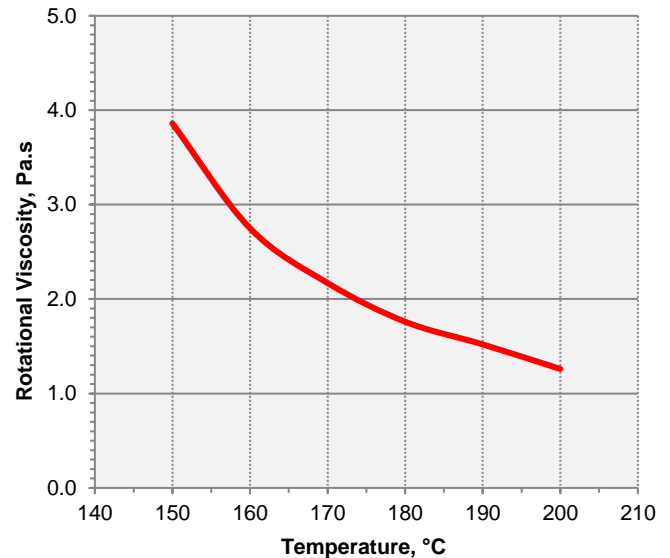
**RECOMMENDED USE**

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

**SPECIFICATIONS AND TYPICAL RESULTS**

TEST	TYPICAL DATA	SPEC.	
		Min	Max
Flash Point (COC), °C	<b>255</b>	-	-
Cone Penetration, 25°C, dmm	<b>65</b>	-	90
Flow, 60°C, mm	<b>0</b>	-	3
Softening Point R&B, °C	<b>85</b>	80	-
Bond, 50% ext, -18°C, 5 cycles	<b>Pass</b>	5	-
Resilience, 25°C, %	<b>54</b>	-	-
Asphalt Compatibility	<b>Pass</b>	Pass	-

**TEMPERATURE VISCOSITY CHART**



**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 6690-1** 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.



**MCASPALT INDUSTRIES LIMITED**

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 ISO 9001/14001/45001

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**APPLICATION GUIDELINES**

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

**APPLICABLE SPECIFICATIONS**

**MACSEAL 6690-1** meets or exceeds: ASTM D-6690 Type I (formerly ASTM D-1190), Federal Specification SS-S-164 and amendments, AASHTO M 324-04, and 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 6690-1** must be melted in oil jacketed double boiler kettle equipped with a mechanical agitator and separate temperature thermometers for both the oil bath and melting vat.

**COVERAGE**

**MACSEAL 6690-1** weighs approximately 1.18 kg/L (9.9 lb/gal). A joint 12.7 mm x 12.7 mm (½ x ½") requires approximately 19.0 kg/100 linear meters (12.8 lbs/100 linear feet).

**PACKAGING, STORAGE AND HANDLING**

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

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

**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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