

**MACSEAL 6690-4**

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

**PRODUCT DESCRIPTION**

**MACSEAL 6690-4** is a premium-quality, high-performance, hot-applied, single-component joint and crack sealant.

**MACSEAL 6690-4** is a formulated blend of engineered asphalts, virgin polymers, synthetic rubbers, reinforcing fillers, anti-oxidants, and UV inhibitors.

**MACSEAL 6690-4** 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
- Low modulus characteristics allow for a decrease in stress build up and enhanced field performance.
- Superior field performance when used in “blow and go” or “clean and fill” operations relative to traditional harder sealants due to its very flexible nature and low modulus properties
- 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

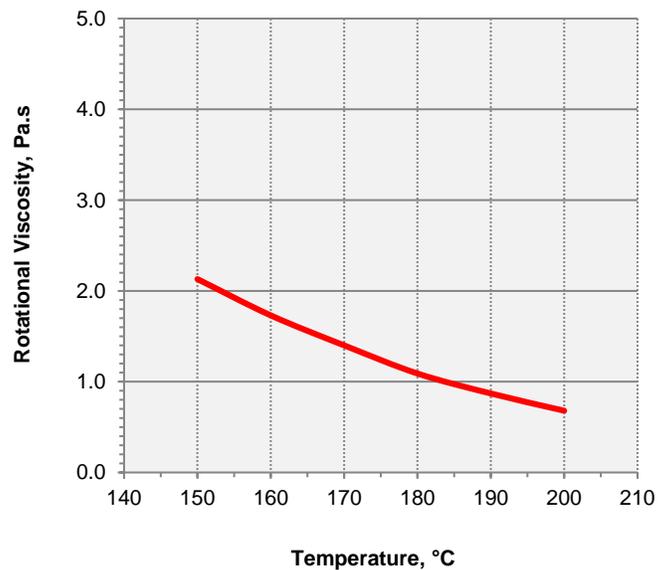
**RECOMMENDED USE**

MACSEAL 6690-4 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	<b>245</b>	-	-
Cone Penetration, 25°C, dmm	<b>115</b>	90	150
Flow, 60°C, mm	<b>1</b>	-	3
Softening Point R&B, °C	<b>84</b>	80	-
Bond, 200%, -29°C, 3 cycles	<b>Pass</b>	3	-
Resilience, 25°C, %	<b>69</b>	60	-
Asphalt Compatibility	<b>Pass</b>	Pass	

**TEMPERATURE VISCOSITY CHART**



**MCASPALT INDUSTRIES LIMITED**

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 ISO 9001/14001/45001

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#### APPLICATION GUIDELINES

For detailed **MACSEAL 6690-4** joint and crack preparation or specific application instructions, refer to specifying agency publications or contact an **MCA** representative.

#### APPLICABLE SPECIFICATIONS

**MACSEAL 6690-4** meets or exceeds: ASTM D-6690 Type IV (Formerly D-3405 Modified-Low Modulus, AASHTO M 324-04, various state and provincial D.O.T. specifications.

#### APPLICATION TEMPERATURES

Recommended pouring temperature: 170°C (340°F)

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

#### MELTING EQUIPMENT

**MACSEAL 6690-4** must be melted in an oil jacketed double boiler kettle equipped with a mechanical agitator and separate temperature thermometers for both the oil bath and melting vat.

#### COVERAGE

**MACSEAL 6690-4** weighs approximately 9.5 lb/gal (1.14 kg/L). A joint ½ x ½ " (12.7 mm x 12.7 mm) requires approximately 18.4 kg/100 linear meters (12.4 lb/100 linear feet).

#### PACKAGING, STORAGE AND HANDLING

**MACSEAL 6690-4** is available in 11 kg (25 lb) polybags in a high-strength, corrugated cardboard container. **MACSEAL 6690-4** 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 6690-4** 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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