

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

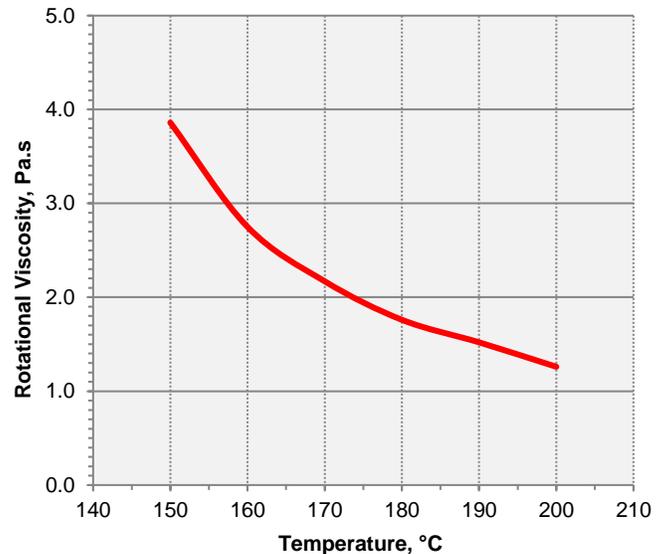
RECOMMENDED USE

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 | 255 | - | - |
| Cone Penetration, 25°C, dmm | 65 | - | 90 |
| Flow, 60°C, mm | 0 | - | 3 |
| Softening Point R&B, °C | 85 | 80 | - |
| Bond, 50% ext, -18°C, 5 cycles | Pass | 5 | - |
| Resilience, 25°C, % | 54 | - | - |
| Asphalt Compatibility | Pass | 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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