PRODUCT DESCRIPTION

**MACSEAL 6690-1PM** is a premium quality, high performance, hot applied, single component joint and crack sealant that does not contain any recycled rubber.

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

**MACSEAL 6690-1PM** unique blend offers excellent 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 climates
- Its flexible nature allows for quick relaxation during the build-up of thermal stresses in asphalt pavements, translating in enhanced performance
- Easy to apply via gravity type mechanism (e.g. pour pot, walk behind units etc.) as well as via pump and wand
- Adheres very well to both hot mix asphalt and Portland cement concrete
- Engineered specifically for double boiler/oil jacketed 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 vs. 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

<table>
<thead>
<tr>
<th>TEST</th>
<th>TYPICAL DATA</th>
<th>SPEC RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (COC), °C</td>
<td>255</td>
<td>...</td>
</tr>
<tr>
<td>Cone Penetration, 25°C, dmm</td>
<td>78</td>
<td>50 to 90</td>
</tr>
<tr>
<td>Flow, 60°C, mm</td>
<td>1</td>
<td>... to 10</td>
</tr>
<tr>
<td>Softening Point R&amp;B, °C</td>
<td>88</td>
<td>80</td>
</tr>
<tr>
<td>Bond, 100%, -18°C, 5 cycles</td>
<td>Pass 5</td>
<td>3 sp</td>
</tr>
<tr>
<td>Resilience, 25°C, %</td>
<td>54</td>
<td>25 to 60</td>
</tr>
<tr>
<td>Asphalt Compatibility</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

TEMPERATURE – VISCOITY CURVE

**MACSEAL 6690-1 PM**
MACSEAL 6690-1PM

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

APPLICATION GUIDELINES

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

APPLICABLE 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 double boiler, oil-jacketed kettle, equipped with mechanical agitator and separate temperature thermometers for both the oil bath and melting vat.

COVERAGE

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

PACKAGING, STORAGE AND HANDLING

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

- 2 x 25 lb polybags in a high strength corrugated cardboard container
- Boxes should be held in a dry environment

CERTIFICATION OF QUALITY

McAsphalt Industries Limited is accredited to the quality standard ISO 9001 and to the environmental standard ISO 14001.

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 it 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, greater environmental and health benefits, the MCA Advantage provides significant long-term cost savings, resulting in lower "total cost of ownership."