**PRODUCT DESCRIPTION**

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

**MACSEAL AR** is manufactured using a combination of engineered asphalt cements, polymers, synthetic rubber, recycled rubber, select process oils, and UV inhibitors.

**MACSEAL AR** will not flow from the joint or be picked up by vehicle tires at high surface temperatures.

**GENERAL PRODUCT FEATURES**

- Cures to a non-tacky finish
- Can be applied over a wide range of temperatures
- Engineered for moderate climates
- 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
- Works well to fill the larger cracks and for routine maintenance of hot mix asphalt and Portland cement concrete

**RECOMMENDED USE**

**MACSEAL AR** is recommended for the large-scale sealing of joints and random cracks in Portland cement concrete and asphalt pavements in diverse climate areas.

**PACKAGING, STORAGE AND HANDLING**

**MACSEAL AR** is available in the following packaging:

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

**SPECIFICATIONS AND TYPICAL RESULTS**

<table>
<thead>
<tr>
<th>TEST</th>
<th>TYPICAL DATA</th>
<th>SPEC.</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>41</td>
<td>30 60</td>
</tr>
<tr>
<td>Flow, 60°C, mm</td>
<td>0</td>
<td>- 3</td>
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<tr>
<td>Resilience, 25°C, %</td>
<td>46</td>
<td>20 60</td>
</tr>
<tr>
<td>Asphalt Compatibility</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

**TEMPERATURE VISCOSITY CHART**

**APPLICATION GUIDELINES**

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

**APPLICATION SPECIFICATIONS**

**MACSEAL AR** meets or exceeds ASTM D-5078 and various state and provincial D.O.T. specifications.
APPLICATION TEMPERATURES
Recommended pouring temperature: 200°C (392°F)
Maximum safe heating temperature: 200°C (392°F)

MELTING EQUIPMENT
MACSEAL AR 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 AR weighs approximately 1.16 kg/L (9.7 lb/gal). A joint 12.7 mm x 12.7 mm (½ x ½") requires approximately 18.8 kg/100 linear meters (12.6 lb/100 linear feet).

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 AR 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.