OLEXOBIT® MAX
POLYMER MODIFIED BINDER
Sprayed Seal Applications

Description
OLEXOBIT® MAX is a polymer modified binder (PMB) that is designed for use in sprayed sealing applications to minimise the risk of reflection cracking on existing cracked surfaces where the cracks are active, or where the potential for cracking exists. OLEXOBIT® MAX is also suitable for use in severe high stress seal applications and as a holding treatment on high traffic roads.

Application
OLEXOBIT® MAX is recommended for application in SAM seals under the following conditions:
- High cracking severity where there are some crack widths of > 2mm and slow to rapid rate of crack movement
- Where there are frequent surfacing defects, such as patching
- Under heavy traffic loading (> 500 HV/lane/day)
- On steep grades (> 5%)
- On tight curves (< 50m radius)
- At intersections, T-junctions and heavy traffic entrances involving severe degrees of braking, acceleration or turning motions

For further advice on the appropriate application of OLEXOBIT® MAX, please contact Puma Bitumen.

*Where large cracks are present and crack movement is > 0.5mm, a PMB alone will not provide a long-term solution and should be used in conjunction with a geotextile.

Key Benefits

Performance Benefits
- Excellent resistance to reflection cracking
- Superior early life adhesion
- Excellent long-term aggregate retention

Application Benefits
- Can be safely applied at temperatures considered too low for alternative modified binders
- Less loose stone during construction reduces the need to broom
- Easy and safe to handle
- Compatible with conventional spray equipment and cutters
- Excellent storage and travel stability

Specification
OLEXOBIT® MAX is manufactured to comply with Austroads AG:PT/T190 S15E grade.

Typical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Softening Point, °C</td>
<td>62</td>
</tr>
<tr>
<td>Torsional Recovery at 25°C, %</td>
<td>47</td>
</tr>
<tr>
<td>Viscosity at 165°C, Pa.s</td>
<td>0.5</td>
</tr>
<tr>
<td>Consistency at 60°C, Pa.s</td>
<td>1,000</td>
</tr>
<tr>
<td>Stiffness at 15°C, kPa</td>
<td>135</td>
</tr>
</tbody>
</table>

OLEXOBIT® MAX provides excellent resistance to crack reflection in strain alleviating membrane applications.
Storage & Handling

The storage of bituminous binders for prolonged periods at elevated temperatures should be avoided as quality may be adversely affected. As a general rule, bituminous binders should be stored at the lowest temperature that enables practical use.

<table>
<thead>
<tr>
<th>Maximum Storage Temperature Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage for up to 90 days</td>
</tr>
<tr>
<td>Storage for up to 7 days</td>
</tr>
<tr>
<td>Storage for up to 4 days</td>
</tr>
<tr>
<td>Storage for up to 24 hours</td>
</tr>
<tr>
<td>Maximum storage temperature</td>
</tr>
</tbody>
</table>

Quality Assurance

Puma Bitumen is recognised nationally for its proven track record in delivering products of consistently high quality. Every day our products perform under the most diverse and demanding road conditions in Australia. This is attributable to a combination of our unique product technology, comprehensive quality assurance programs, operational efficiency and sophisticated production processes – all supported by our highly skilled and experienced staff.

We maintain an in-house national technical centre in Melbourne which focuses on R&D, as well as providing technical expertise and support to our customers throughout Australia. Our team of technical specialists is dedicated to ensuring our products are thoroughly tested at every stage - from the selection of crude oil at the start of the production process, right through to delivery.

Our product stewardship and rigorous quality management practices reflect our commitment to delivering the highest quality products that perform on the road. Our commitment to quality is recognised by our accreditation to Australian Standard AS/NZS 9001.

Health & Safety

To ensure hot bitumen is used in a safe and efficient manner the following safety precautions must be followed:

- Wear suitable personal protective equipment (PPE) at all times. Full skin protection is required to avoid accidental burns when transferring or handling hot bitumen.
- Always prevent contact between water and hot bitumen by checking the contents of the previous load before loading bituminous products into tankers and by following procedures to avoid violent boil-over of tanks.
- Avoid exposure to fumes by standing back on the gantry or upwind until the vapours have dispersed.
- Minimise bitumen fume by heating bitumen and asphalt products to the recommended temperatures.
- Minimise the use of diesel when cleaning equipment as this contributes to the bitumen fume.

For a full description of hazards associated with the use of bituminous binders, please refer to the appropriate material safety data sheet (MSDS) available on the Puma Bitumen website.