

PRODUCT DESCRIPTION

Flexiphalt 350S is a premium grade, polymer modified bitumen specifically designed for use in Strain Alleviating Membranes (SAMs) and Strain Alleviating Membrane Interlayers (SAMIs). It is an ideal choice for alleviating pavement distress caused by heavy vehicles or high traffic volumes. The use of Flexiphalt 350S provides the following performance advantages over conventional bitumen:

- A high viscosity for improved resistance to flushing
- Improved cohesive strength for good aggregate retention
- Excellent resistance to fatigue and reflective cracking

WHERE TO USE

- As a SAM for cracked pavements or pavements experiencing high deflection.
- As a SAMI under dense or open graded mix.
- Heavy axle loads and traffic flows
- Pavements subject to extremely hot or cold temperatures

TYPICAL PROPERTIES OF FLEXIPHALT 350S

Penetration (25°C)	ASTM D5	140 dmm
Softening Point	ASTM D36	72 °C
Torsional Recovery (25°C, 30 sec)	AG:PT/T154	70 %
Brookfield Viscosity (165°C)	ASTM D4402	300 mPa.s

APPLICATION AND DESIGN

Polymer modified binders (PMBs) should only be applied to clean, dry pavements. Ideally, spraying should only be carried out in the middle of summer.

Spraying Temperature	180 – 195°C
Air and Pavement Temperature	20°C and rising

Adhesion and chip retention can be difficult to achieve with polymer modified bitumens. The following guidelines may assist in attaining adequate chip retention:

- Design as a two-coat system such as a wet-locked seal, two-coat seal or Cape Seal,
- Use clean, dry chip that is preferably pre-coated or heated,
- Use adhesion agent, or diluents as required,
- Apply Flexiphalt 350S as an emulsion (Emulsiphalt[®] 375),
- Ensure early chipping and adequate and timely rolling.
- Early chip retention can be improved by increasing the spray rates for Flexiphalt 350S by up to 30% in single coat reseals. However, local experience, pavement and traffic conditions must also be considered. Consult the manufacturer if further guidance is required.

To the best of our knowledge the information contained in this document is correct. Since the products described herein are being continuously improved, the specified properties may vary as improvements are made to production processes and product quality. This document may be revised at any time.