



Flexiphalt® HiMOD

Flexiphalt HiMOD is a premium grade, fully networked SBS polymer modified bitumen that has been specifically designed for use in structural asphalt pavements.

The use of Flexiphalt HiMOD allows the pavement designer to utilise the benefits of a higher Fatigue Endurance Limit (FEL) and reduced thicknesses compared to pavements constructed using unmodified bitumen.

Perpetual pavements can be designed and economically constructed using Flexiphalt HiMOD®.

- Exceptional deformation resistance
- Good crack resistance
- AASHTO M332 specification grade PG64E-16.

WHERE TO USE

- Structural asphalt pavements at ports and industrial sites, subjected to extreme axle loads
- Construction of reduced thickness asphalt pavements
- Critical elements of the network where future maintenance activities will create unacceptable disruption and perpetual pavement designs are advantageous.

APPLICATION AND DESIGN

The asphalt design procedure and bitumen content is identical to that used for unmodified asphalt. The following guidelines may assist in obtaining adequate compaction:

- The recommended temperature range for asphalt production using Flexiphalt HiMOD is 165–180°C
- The mix and compaction temperatures for Austroads, SP-2 and MS-2 mix design purposes are 175°C and 160°C respectively
- Ensure that the rollers are of sufficient size and quantity
- Establish an appropriate rolling pattern
- Avoids delays and begin compaction immediately. Compaction is best achieved before the temperature falls below 120°C
- Consult the manufacturer if further guidance is required
- A Safety Data Sheet (SDS) is available upon request.



Typical Properties of Flexiphalt HiMOD

Title	Method	Property
Viscosity (135°C)	ASTM D4402	1.3 Pa.s
G*/sin = 1.00 kPa	ASTM D7175	90°C
Jnr (3200 Pa, 64°C)	ASTM D7405	0.2 kPa ⁻¹
Elastic Recovery (64°C)	ASTM D7405	60%
Density (25°C)	ASTM D70	1.02 kg/L

For more information please contact:

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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.