



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.

- Unsurpassed deformation resistance
- Outstanding fatigue resistance
- AASHTO M320 specification grade PG88-22
- AASHTO M332 specification grade PG70-22E.

> 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.

> TYPICAL PROPERTIES OF FLEXIPHALT HiMOD

Penetration (25°C)	ASTM D5	28 dmm	$G^*/\sin\delta = 1.00 \text{ kPa}$	ASTM D7175	92°C
Softening Point	ASTM D36	83°C	Jnr (3200 Pa, 70°C)	ASTM D7405	0.2 kPa ⁻¹
Viscosity (165°C)	ASTM D4402	800 mPa.s	Elastic Recovery (70°C)	ASTM D7405	60%
Density (25°C)	ASTM D70	1.03 kg/L			

> APPLICATION AND DESIGN

The asphalt design procedure and bitumen content is identical to that used for unmodified asphalt. However, the higher viscosity of the binder resists pumping and compaction efforts to a greater extent than unmodified binders. The following guidelines may assist in obtaining adequate compaction:

- The recommended production mix temperature is 175°C minimum
- The mix and compaction temperatures for Austroads, SP-2 and MS-2 mix design purposes are 180°C and 165°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 130°C
- Consult the manufacturer if further guidance is required
- A Safety Data Sheet (SDS) is available upon request.

For more information on the availability of Flexiphalt HiMOD please contact:

Higgins Bitumen (a division of Higgins Contractors Ltd),
PO Box 421, Napier
P: (06) 834-1589 E: HBM@higgins.co.nz

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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.

