



SAMIfalt EME2
A SUPERIOR GRADE OF BITUMEN



STRENGTH PERFORMANCE

PROVIDING PERFORMANCE AT A
REDUCED PAVEMENT THICKNESS



SAMIfalt EME2 BINDER

SAMIfalt EME2 Binder is an innovative bituminous binder designed for use in high modulus asphalt mix (Enrobés à Module Elevé - EME) to provide increased stiffness, fatigue and rut resistance properties over conventional asphalt mixes. Developed in France by Colas in the 1990's, EME2 has been extensively used on motorways, airports and urban roads in Europe and more recently in Australia.

Unlike other base course asphalt technologies, EME2 is designed to meet prescribed performance requirements, being a proven technology that delivered significant benefits worldwide for almost 30 years.

SAMIfalt EME2 Binder is produced by SAMI in a special plant to impart high modulus and fatigue properties for use in structural asphalt mixes.

The increase in these asphalt properties will facilitate a reduction in layer thickness compared to conventional asphalt base courses for the same level of traffic.

SAMI Bitumen Technologies is now a major producer of EME2 binder in Australia, with production facilities in NSW, Queensland and Western Australia.

The production of the specialised EME2 binder has been integral to SAMI Bitumen Technologies' commitment to the market and community and the company will continue to invest in expanding and improving these capabilities. This includes a large investment in resourcing SAMI's Sydney laboratory with the asphalt performance testing equipment and a laboratory scale oxidiser.

SAMI Bitumen Technologies is actively offering support to the asphalt contractors by conducting EME2 mix designs using local test methods and validating these mix designs in COLAS's Central laboratory in Paris against the French standards.

EME2 Binder Specification

Penetration Grade				10/20	15/25
Property	Test Method	Unit	Limit	Value	Value
Penetration at 25°C	AS 2341.12	0.1 mm	Minimum Maximum	10 20	15 25
Softening Point	AS 2341.18	°C	Minimum Maximum	59 79	56 72
Viscosity at 60°C	AS/NZS 2341.2	Pa.s	Minimum	1050	900
Loss on Heating	AGPT/T103	%	Maximum	N/A	0.5
Retained Penetration after RTFO treatment	AS/NZS 2341.10, AS 2341.12	%	Minimum	N/A	55
Increase in Softening Point after RTFO treatment	AS/NZS 2341.10, AS 2341.18	°C	Maximum	10	8
Viscosity at 135°C	AS/NZS 2341.2, AS 2341.3, AS/NZS 2341.4 or AGPT/T111	Pa.s	Minimum	0.7	0.6
Matter Insoluble in Toluene	AS/NZS 2341.8	% mass	Maximum	N/A	1.0

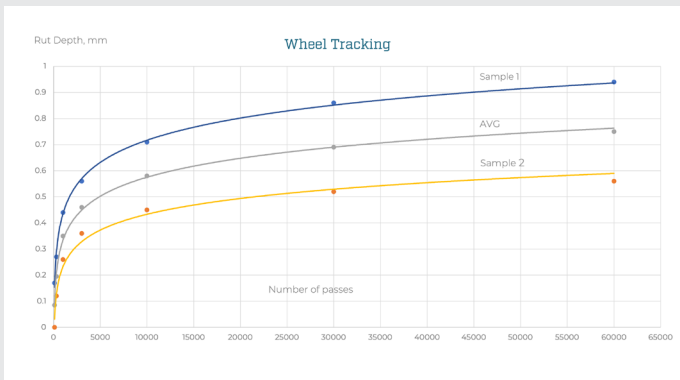
- 1 SAMIfalt EME2 binder has been proven to be homogenous and stable under hot storage conditions.
- 2 The site storage tank is to be completely empty below the heating flues or elements before discharging the EME2 bitumen from the road tanker, unless it contains a previous load of EME bitumen. If the tank cannot be drained, then it must be flushed out with EME bitumen.
- 3 If handled at the recommended temperatures, it does not fume during the manufacturing, laying and compaction of the asphalt mix.
- 4 Despite its inherent stiffness, SAMIfalt EME2 binder has very good workability and compactability. The increased binder content of the EME2 mixes, when compared to conventional base course mixes, aids with workability and compactability.



EME2 Mix Performance Based Requirements

EME2 asphalt is design using a performance based testing regime to ensure that the mix has:

- Good workability
- Very high resistance to deformation (shoving and rutting)
- Very good stripping resistance to moisture
- High asphalt stiffness due to the low penetration bitumen
- High Fatigue resistance due to a higher binder content





Health and Safety

Please refer to the Safety Data Sheet (SDS) of the product for detailed information on health and safety before using this product. The SDS is available on request from SAMI Bitumen Technologies on the contact provided below.

Technical Data

For detailed technical information contact SAMI Bitumen Technologies.

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