

# PRODUCT DATA SHEET



## PRODUCT NAME: SAMIfalt EME

### DESCRIPTION

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

SAMIfalt EME Binder is an unmodified bitumen and is used for high modulus asphalt base course applications imparting very high stiffness which in turn will allow a reduced layer thickness compared to conventional base courses for the same level of traffic.

### FEATURES

- Very high resistance to deformation (shoving and rutting);
- Fatigue resistance;
- Resistance to crack propagation (reflective cracking);
- Achieving all the above performance criteria at a thickness up to 30% lower than conventional base courses.

### APPLICATIONS

Used in base course applications with a nominal size mix of 14mm.

### TECHNICAL PROPERTIES

PROPERTY	UNIT	TEST METHOD	Typical VALUES	Specification
Softening Point	°C	AS 2341.18	70 - 72	56 - 72
Penetration	dmm	AS 2341.12	15 - 18	15 - 25
Viscosity at 135°C	Pa.s	AS 2341.4	2.5 – 3,5	0.6 min.
Viscosity at 60°C	Pa.s	AS 2341.2	8,000 – 11,000	900 min.

### STORAGE, HANDLING & USAGE

- SAMIfalt EME binder has been proven to be homogenous and stable under hot storage conditions.
- If handled at the recommended temperatures, it does not fume during the manufacturing, laying and compaction of the asphalt mix;
- Despite its inherent stiffness, SAMIfalt EME binder has very good workability and compactability with the increased binder content of EME mixes compared to conventional base course mixes aiding with workability and compactability;
- The minimum mix temperature in the paver should be 165°C with compaction commencing at this temperature;
- Use steel rollers with a minimum capacity of 7 tonnes and vibratory capacity (the first pass should be vibratory); no pneumatic or rubber tyre rollers should be used until the mix cools down sufficiently, so that no "pumping" occurs.

### AVAILABILITY

Available in bulk (minimum 6 tonnes) on order in all the States and Territories.

*Disclaimer: Whilst every care is taken to provide accurate information, it is intended as a guide only and no responsibility is accepted nor is it warranted suitable for a particular application.*