

PRODUCT DATA SHEET



PRODUCT NAME: Polyseal

DESCRIPTION

Polyseal is a polymer modified binder used in sprayed sealing applications in high stress areas which meets the S35E grade Austroads specification. Polyseal is a composite product manufactured by blending bitumen with certain types of plastomeric and elastomeric polymers.

The combination of the two polymer types has the synergetic benefit of toughness imparted by the plastomer while the elastomeric component increases the binder's elasticity and promotes superior adhesion with the aggregate.

FEATURES

- Toughness;
- Excellent aggregate retention;
- Very good storage stability;
- Low temperature susceptibility.

APPLICATIONS

Used in High Stress Seals (HSS) applications (intersections, climbing lanes, turning areas) and as Strain Alleviating Membrane (SAM) where minor cracking is present.

TECHNICAL PROPERTIES

PROPERTY	UNIT	TEST METHOD	Typical VALUES	Specification (Austroads ATS-3110)
Viscosity at 165°C	Pa.s	AGPT/T111	0.28	Max. 0.55
Torsional Recovery at 25°C	%	AGPT/T122	28	16 - 32
Softening Point	°C	AGPT/T131	52.0	48 - 56
Consistency 6% at 60°C	Pa.s	AGPT/T121	360	Min. 250

STORAGE, HANDLING & USAGE

- Never heat Polyseal above 200°C;
- Polyseal may be stored for up to 4 days at 175 - 185°C and for periods exceeding 4 days the temperature must be reduced to 120-150°C. It can be kept at this temperature for up to 14 days without deterioration of binder properties;
- When re-heating Polyseal, heat and circulate at a maximum rate of 10°C per hour;
- A minimum pavement surface temperature of 20°C is recommended for spraying Polyseal;
- The amount of cutter would be determined by local weather conditions and SRA guidelines but generally not more than 3%;
- Polyseal may be sprayed at temperatures ranging from 180 to 190°C.

AVAILABILITY

A minimum 6 tonnes quantity on order in all the States and Territories.