



COLFLEX S™

Elastomer Modified Bitumen

Product Data Sheet 2018/06

DESCRIPTION

COLFLEX S™ is a 70/100 penetration grade bitumen modified with SBS polymer.

USES

COLFLEX S™ is used mainly:

- For resealing roads with active surface cracks < 5 mm,
- As a Stress Absorbing Membrane Interlayer (SAMI) to prevent cracks from reflecting through the overlying asphalt layers,
- In chip seals for new construction in highly stressed areas.

PROPERTIES

COLFLEX S™ is a high softening point binder with high elastic recovery. This makes the seal less susceptible to bleeding under heavy traffic at high in-service road temperatures. COLFLEX S™ can also be applied at higher application rates than conventional hot binders without the risk of bleeding.

SPECIFICATIONS

Depending on the customer's requirements, the polymer content of COLFLEX S™ can be adjusted in order for the binder to conform either to the S-E1 or S-E2 specification for polymer modified binders for use in seal applications.

BINDER PROPERTIES	S-E1 REQUIREMENT		TEST METHOD
	Min	Max	
Before Ageing			
Softening point, °C	50	70	MB-17
Dynamic viscosity @ 165°C, Pa.s	-	0.55	MB-18
Elastic recovery @ 15°C, %	50	-	MB-4
Flash point, °C	230	-	ASTM D93
Stability (R&B dif @ 160°C), °C	-	5	MB-6
After Ageing (RTFO)			
Mass change %	-	1.0	MB-3

BINDER PROPERTIES	S-E2 REQUIREMENT		TEST METHOD
	Min	Max	
Before Ageing			
Softening point, °C	60	80	MB-17
Dynamic viscosity @ 165°C, Pa.s	-	0.60	MB-18
Elastic recovery @ 15°C, %	60	-	MB-4
Flash point, °C	230	-	ASTM D93
Stability (R&B dif @ 160°C), °C	-	5	MB-6
After Ageing (RTFO)			
Mass change %	-	1.0	MB-3

Head Office

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DIRECTIONS FOR USE

1. Precoating of stone is necessary. Chip spreader to follow closely behind sprayer.
2. Apply with a conventional distributor at a minimum road surface temperature of 25°C and rising.
3. The seal can be opened to traffic immediately after rolling and sweeping without risk of chip loss.
4. Recommended storage and handling criteria for **COLFLEX S™** are as follows:

Spray temperature	180-190°C	
Maximum storage temperature	< 24 hours*	> One day
	180°C	150°C

* Important to circulate binder during heating, as prolonged intense heating will cause carbonisation of binder on flues and polymer degradation which could lead to blocked nozzles.

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