

**SS 60****Anionic Stabilisation Grade Bitumen Emulsion**

Product Data Sheet 2015/11

DESCRIPTION

SS 60 stabilisation grade is a low viscosity anionic slow set bitumen emulsion.

USES

SS 60 stabilisation grade is used mainly for mixing with natural gravels or crushed aggregates for the *stabilisation* of base coarses. Can also be diluted with water and applied onto aged seals as an *enrichment spray* or as a *tack coat* for an asphalt overlay.

PROPERTIES

SS 60 stabilisation grade relies on the evaporation of the water component for breaking/curing. Due to the chemical stability of **SS 60 stabilisation grade**, it can be mixed with cement, making it the ideal bitumen emulsion for use in conjunction with cement during the stabilisation of base coarses.

SPECIFICATIONS

SS 60 stabilisation grade conforms to the SANS 4001-BT3 specification for anionic bitumen road emulsions.

EMULSION PROPERTIES	REQUIREMENT		TEST METHOD
	Min	Max	
Binder content, % m/m	60	62	ASTM D244
Residue on sieving, g/100 ml	-	0.25	SANS 4001-BT3
Sedimentation after 60 rotations	Nil		SANS 4001-BT3
Coagulation value when mixed with cement, % m/m	-	2	SANS 4001-BT3

DIRECTIONS FOR USE

1. **SS 60 stabilisation grade** can be stored and mixed with aggregates at ambient temperature.
2. Can be stored for up to six months at ambient temperature without risk of settlement. It is, however, recommended that bulk product is occasionally agitated and drummed product rolled during prolonged storage.
3. If diluting with water, confirm the compatibility of the water with the emulsion.
4. 2 – 3% of **SS 60 stabilisation grade** is usually mixed with natural gravels or crushed aggregates for the *stabilisation* of base coarses, which equates to approximately 6,5 – 10lt of emulsion per m² of aggregate (assuming that the base layer to be stabilised is 150mm thick).
5. As an *enrichment spray* or *tack coat* for HMA applications, the **SS 60 stabilisation grade** should be diluted with water at a ratio of 1:1.
6. The binder should be heated to 60°C for spray applications.
7. As an *enrichment spray*, an application rate of 1,0 lt of diluted emulsion/m² is recommended.
8. As a *tack coat* for HMA applications, an application rate of 0,5 lt of diluted emulsion/m² is recommended.

Note: **SS 60 stabilisation grade** is not suitable for the preparation of slurry mixes, as segregation may occur.

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