



SS 60

Anionic StableMix Emulsion

Product Data Sheet 2024/01

DESCRIPTION

SS 60 stable mix grade emulsion is a low viscosity anionic *slow set* bitumen emulsion.

USES

SS 60 stable mix grade emulsion is used mainly as a cold applied binder for the manufacture of *slow set slurry mixtures* which can be batch mixed and applied by hand or with a continuous mix and lay machine.

SS 60 stable mix grade emulsion can also be diluted with water and applied onto aged seals as an enrichment spray or as a tack coat for an asphalt overlay. Can also be used in bitumen stabilized materials (BSM) applications.

PROPERTIES

The slow setting nature of **SS 60** stable mix grade makes it ideal for mixing and applying slurries by hand. Slurry mixtures prepared by batch mixing can be kept workable in transit mixers up to 2 hours before setting.

Slow set slurry mixtures prepared with **SS 60** stable mix grade emulsion, rely on the evaporation of the water component to cure.

SPECIFICATIONS

SS 60 stable mix grade emulsion 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

- SS 60** stable mix grade emulsion can be stored and mixed with aggregates at ambient temperature.
- Can be stored for up to six months at ambient temperature without risk of settlement.
- For the preparation of hand applied slurry mixtures, the following mix proportions are recommended:

8 – 12 mm layer

Crusher dust (coarse graded)	-	5 x 20 lt
Cement	-	1 – 2 kg
Water	-	10 - 15 lt
SS60 stable mix grade 60%	-	1 x 20 lt

6 – 8 mm layer

Crusher dust (medium graded)	-	4 x 20 lt
Cement	-	1 – 2 kg
Water	-	15 - 20 l
SS60 stable mix grade 60%	-	1 x 20 lt

- As an *enrichment spray* or *tack coat* for HMA applications, the **SS 60** stable mix grade should be diluted with water at a ratio of 1:1.
- If diluting with water, confirm the compatibility of the water with the emulsion.
- The binder should be heated to 60°C for spray applications.
- As an *enrichment spray*, an application rate of 1,0 lt of diluted emulsion per m² is recommended.
- As a *tack coat* for HMA applications, an application rate of 0,5 lt of diluted emulsion per m² is recommended.

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