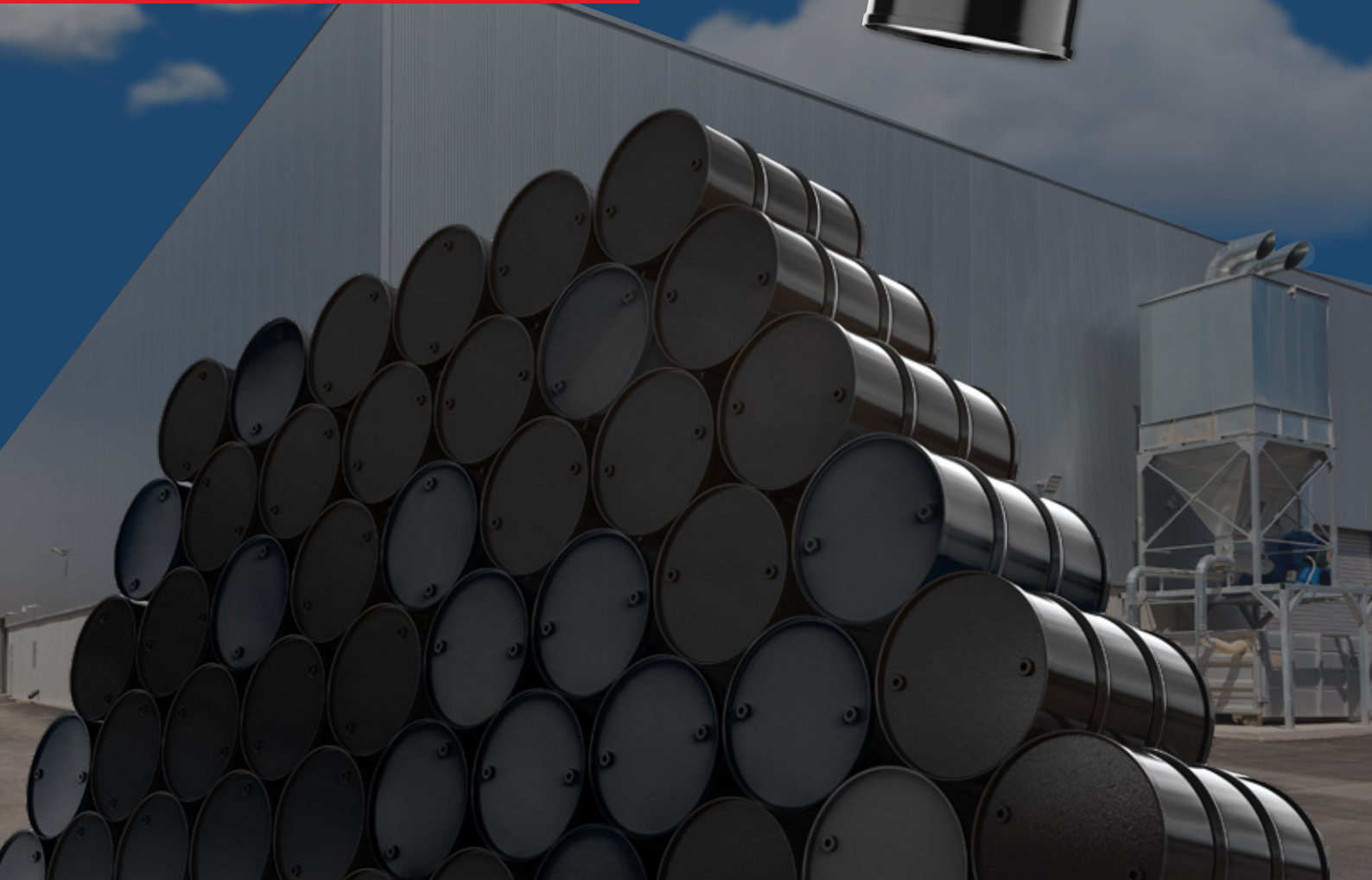




Product Catalogue

ISSUE 001 | 2023





THANDOKINETICS
WE FOCUS ON QUALITY



Driving economic development

EXPERT BITUMEN DISTRIBUTORS

Table of Contents

SS 60	03
KRS 60	04
MC 30 CUTBACK	05
E-PRIME	06



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

PROPERTIES

The slow setting nature of SS 60 stable 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 grade, rely on the evaporation of the water component to cure. SPECIFICATIONS SS 60 stable grade conforms to the SANS 4001 - BT3 specification for anionic bitumen road emulsions.

USES

SS 60 stable grade 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 grade can also be diluted with water and applied onto aged seals as an enrichment spray or as a tack coat for an asphalt overlay.

	SABS SPECIFICATIONS
BINDER CONTENT	60 - 63
PH	11.0 - 12.0
SCREEN	0 - 0.25
DILUTION	PASS
SEDEMENTATION	NIL
SLURRY MIX	GOOD
CEMENT TEST	*



SPECIFICATIONS

- SS 60 stable grade 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. **8-12mm layer | 6-8mm layer**
- For the preparation of hand applied slurry mixtures, the following mix proportions are recommended:

Crusher dust (coarse graded) - 5 x 20 lt	Water - 10 - 15 lt	Water - 15 - 20 l
Crusher dust (medium graded) - 4 x 20 lt	SS60 stable grade 60% - 1 x 20 lt	SS60 stable grade 60% - 1 x 20 lt
Cement - 1 - 2 kg	Cement - 1 - 2 kg	

- As an enrichment spray or tack coat for HMA applications, the SS 60 stable 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.

KRS 60 is a low viscosity cationic rapid-set bitumen emulsion.

PROPERTIES

The slow setting nature of SS 60 stable grade makes it ideal for mixing and applying slurries by hand. KRS 60 has a low viscosity, which improves the flow of the binder allowing it to readily wet aggregates. The positive electrical charges of the emulsifier on the bitumen droplets are attracted to the free negative ions of the aggregates resulting in a chemical break, thus improving the binder adhesion to the stone. KRS 60 can also be diluted with water and applied as a cover spray on a newly constructed seal. SPECIFICATIONS KRS 60 conforms to SANS 4001-BT4 specification for cationic bitumen road emulsions.

USES

KRS 60 is used mainly as a hand applied tack coat or penetration spray in the construction of single, double or Cape seals. It is favoured over hot binders when resealing roads in cold/wet climates or small areas which require hand application. It is also used in new construction where traffic accommodation is not a problem.

	SABS SPECIFICATIONS
BINDER CONTENT	60 - 63
PH	2 - 3.5
SCREEN	0 - 0.25
DILUTION	PASS
SEDEMENTATION	NIL
SLURRY MIX	GOOD
CEMENT TEST	*



SPECIFICATIONS

KRS 60 conforms to SANS 4001-BT4 specification for cationic bitumen road emulsions

MC 30 is a blend of medium curing petroleum solvents and penetration grade bitumen.

PROPERTIES

MC 30 is blended to a low viscosity to ensure that it penetrates up to 10 mm of the base course with the aid of the cutter, whilst depositing a thin film of bitumen on the surface to provide adhesion between the base course and the new surfacing.

USES

MC 30 is used for priming newly constructed, crushed stone- or natural gravel base courses prior to surfacing.

	SABS SPECIFICATIONS
BINDER CONTENT	60 - 63
PH	2 - 3.5
SCREEN	0 - 0.25
DILUTION	PASS
SEDEMENTATION	NIL
SLURRY MIX	GOOD
CEMENT TEST	*



SPECIFICATIONS

MC 30 conforms to SANS 4001 - BT2 requirements for cutback bitumen.

DIRECTIONS FOR USE

1. Although MC 30 is pumpable at ambient temperature, heating of the binder is recommended prior to spray applications.
2. Special care must be taken whilst heating, as MC 30 contains flammable cutters which have a flash point of > 38°C.
3. Before priming, the surface of the base course should be well swept.
4. The moisture content of the base course should be less than 50% of the Optimum Moisture Content.
5. If the base is very dry, dampen slightly with water to prevent the formation of "fish eyes".
6. Apply with a calibrated distributor at a binder spray temperature of $\pm 55^{\circ}\text{C}$ and a minimum road surface temperature of 10°C and rising.
7. Drying time is dependent on the porosity of the base course as well as on the prevailing weather conditions. The prime must be allowed to dry before opening to traffic or proceeding with the construction of the surfacing

E-PRIME is a non-flammable, low viscosity emulsion prime with reduced drying time, environmentally friendly and easy application.

PROPERTIES

PROPERTIES E-PRIME E radically reduces the use of hydrocarbon solvents and surfaces primed with this material can usually be overlaid within 24 hours. The product is brown in colour immediately after application, but rapidly changes to a black colour within minutes after application. Quicker penetrating than MC 30 .

USES

E-PRIME E can be used as a prime on natural gravel, crushed stone and cement treated base coarse materials. Due to its low viscosity it will rapidly penetrate these materials to a depth of 3 to 8 mm.

	SABS SPECIFICATIONS
BINDER CONTENT	20 - 24
PH	2 - 6
SCREEN	0 - 0.25
WATER CONTENT	45 - 52
CUTTER CONTENT	24 - 29
DENSITY @ 20 C	+/- 0.955
VISCO	



DIRECTIONS FOR USE

1. For hand-spray application, E-PRIME E can be applied at ambient temperature. Theoretically, for application by binder distributor, similar application temperatures apply. However, depending on the type of equipment, best results are obtained if the product is heated to a maximum temperature of 45°C.
2. COLPRIME E™ can be applied at a minimum road surface temperature of 10°C and rising.
3. Typical application rates are 0.8 to 1,2 l/m² .
4. If the primed base is to be overlaid by hot-mix asphalt, a minimum curing period of 6 hours is recommended. If a chip seal is to be placed on top of the primed surface, a minimum curing period of 24hours is recommended.
5. Dampening of the base coarse prior to the application of COLPRIME E™ is not recommended.



CONTACT US

LOCATION

28 20th Street
Industria
Polokwane
South Africa

CONTACT DETAILS

EMAIL
info@thandok.com
PHONE
+27 15 690 0090