

BITUMEN SUPPLIES & SERVICES

THE BITUMEN PROFESSIONALS



MC30

MC3000

Cutback Bitumen 400-600

CUTBACK BITUMEN

PRODUCT SPECIFICATIONS

ESPECIFICACIONES DEL PRODUCTO

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ESPECIFICAÇÕES DO PRODUTO

产品规格

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MC 30™ Cutback Bitumen

DESCRIPTION

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

APPLICATION

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

PROPERTIES

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

SPECIFICATIONS

MC 30™ conforms to SANS 14001 – BT2:2012 requirements for cutback bitumen.

EMULSION PROPERTIES	REQUIREMENT		TEST METHOD
	MIN	MAX	
Kinematic viscosity @60°C, cSt	30	60	ASTM D2170
Dynamic viscosity @ 60°C, mPa-s	30	70	ASTM 4402
Residue from distillation to 360°C, vol%	50	-	ASTM D402
Penetration at 25 °C, 100g/5s on residue from distillation	90	180	ASTM D5/AASHTO T9
Viscosity @ 60°C on residue from distillation, Pa-s	30	-	ASTM D5
Distillation to 360°C, vol%: To 190°C 225°C 260°C 316°C	- 15 50 80	15 60 85 100	ASTM D402

DIRECTIONS FOR USE

1. Although **MC 30™** is pump-able 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 >40°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 55°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



MC 3000 Cutback Bitumen

DESCRIPTION

MC 3000 is a blend of medium curing petroleum cutter and penetration grade bitumen.

APPLICATIONS

MC 3000 is mostly used as the tack coat in grit seals, sand seals, Otta seals and single seats for lightly trafficked roads. Constructed during winter.

PROPERTIES

MC 3000 is a high viscosity cutback bitumen with a high binder content. The cutter ensures proper wetting of the cover aggregates whilst depositing a film of bitumen to provide adhesion to the base.

SPECIFICATIONS

MC 3000 conforms to SABS 308 specification for cutback bitumen.

EMULSION PROPERTIES	REQUIREMENT		TEST METHOD
	MIN	MAX	
Kinematic viscosity @60°C, cSt	3000	6000	ASTM D2170
Dynamic viscosity @ 60°C, MPa·s	3000	7000	ASTM 4402
Residue from distillation to 360°C, % v/v	80	-	ASTM D402
Viscosity @ 60°C on residue from distillation, Pa·s	30	-	ASTM D4402
Distillation to 360°C, % v/v:			
To 190°C	-	-	ASTM D402
225°C	-	25	
260°C	-	40	
316°C	35	80	

DIRECTIONS FOR USE

1. Apply with a calibrated distributor at a binder spray temperature of 135°C and a minimum road surface temperature of 15°C and rising.
2. Special care must be taken whilst heating, as **MC 3000** contains flammable cutters which have a flash point of >40°C.
3. Curing time will depend mostly on the weather conditions.



Bitumen Cutback 400-600™

BITUMEN CUTBACK PROPERTIES	REQUIREMENT		TEST METHOD
	MIN	MAX	
Pseudoviscosity measured by viscometer			NF T66-005
-4mm sieve, at 25°C	-	30	
-10mm sieve, at 25°C	400	600	
-10mm sieve, at 40°C	-	-	
Relative density at 25°C (pycnometer)	0.90	1.04	NF T 66-007
Fractional distillation (results expressed as percentage of initial volume)	-	-	NF T 66-003
Fraction distilled below:			
To 190°C	-	-	
225°C	-	2	
315°C	5	12	
360°C	-	15	
Penetrability of the distillation (at 25°C/100g/5s) of residue at 360°C(1/10mm)	80	200	NF EN 1426 (NF T66-004)
Flash Point (Cleveland Open) (°C)	55°C		NF T 66-009

DIRECTIONS FOR USE

1. Although **Bitumen Cutback 0-1™** is pump-able at ambient temperature, heating of the binder is recommended prior to spray applications.
2. Special care must be taken whilst heating, as **Bitumen Cutback 0-1™** contains flammable cutters which have a flash point of >40°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 55°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.

