



Solvent base bitumen prime / tack coat

Uses

The major use of cutback is to protect the underlying layers from wet weather by providing a temporary waterproofing layer, Additional benefits of cutback is to stabilizing or binding the surface fines together and promoting bond to the HMA layer. Cutback increased the bond strength at the interface between a compacted base and asphalt layer.

Advantages

- Penetrate into the absorbent surface and bind the granular material together.
- Harden or toughen the surface
- Partially waterproof the treated areas to make them resistant to water erosion
- Does not affect the base bitumen properties
- Provide adhesion between the base and the next course
- Provide protection from wind, water, and traffic erosion

Compliance to ASTM Standards

RC Type: ASTM D2028-76, AASHTO M-81
MC Type: ASTM D2027-76, AASHTO M-82

Description

Bitu Cutback* is combination of asphalt cement and petroleum solvent, **Bitu Cutback*** is available in two grades, **RC (Rapid Cure) RC-70 RC-250, RC-800** are blend with Petrol/Naphtha, and **MC (Medium Cure) MC-70, MC-250, MC800** are blend with Kerosene.

Surface Preparation

Bitu Cutback* can be applied in some situations without any preparation. However, the beneficial effects will be reduced by an extremely dry material, the presence of highly compacted areas, potholes, and high spots. To optimize the performance of Bitu Cutback* the following steps should be employed:

Grading

Using a road grader, an angled dozer, or shovels and rakes, remove, mix and replace the top 50 to 150 mm (2 to 6 in.) of material.

Insure that the surface is free from local high spots and potholes, and that the material is evenly mixed and distributed to avoid segregated pockets of coarse or fine aggregate.

Watering

Water should be applied 2 to 12 hours before priming; at the time of priming surface should be dry.

Application

Bitu Cutback* is sprayed at about 0.65 – 1.75 Kg / m² as prime coat & 0.20 – 0.65 Kg. / m² as tack coat, Do a test area to check the level of penetration first. Adjust spray temperature if necessary. Spray using a standard sprayer that is properly calibrated.

Allow penetrating and drying. Usually traffic should not be allowed on to this for 24 hours.

Technical support

Pakistan Bitumen Company provides a technical advisory service for on-site assistance and advice on selection of Cutback grade, as per site conditions.

Precaution / Limitation

Bitu Cutback* shall not be applied when the ambient temperature is below - 10° C, or when rain is imminent.

Bitu Cutback* may be harmful to growing plants, since like any other oil, it seals pores and interferes with intake of carbon dioxide. Reasonable care should be taken to pre-vent overspray on crops. Also, since the product is black, reasonable care should be taken to prevent spraying on buildings, fences, and other areas where dark stains are undesirable.

Avoid skin and eye contact, in case of contact, use suitable solvent and seek medical advice, use the appropriate means if self protection, it must not be disposed to surface and in still water.

Traffic should be kept off the treated surfaces until the product has penetrated and the surface is no longer tacky. There should be no pickup of the treated materials on shoes or tires.

If puddles develop in low spots, clean sand or soil should be applied to blot them.

Bitu Cutback* is in the hazardous classifications of current regulations. It should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with suitable solvent. In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

Properties of RC (Rapid Cure) Cutback

Grade	RC-70		RC-250		RC-800	
	Min.	Max.	Min.	Max.	Min.	Max.
Limits						
Water percent	-	0.2	-	0.2	-	0.2
Flash point (Tag. Open cup) °C	-	-	27	-	27	-
Kinematic viscosity at 60 °C	70	140	250	500	800	1600
Saybolt Furol Viscosity at 50 °C Sec.	60	120				
Saybolt Furol Viscosity at 60 °C Sec.			125	250		
Saybolt Furol Viscosity at 82.2 °C Sec.					700	1500

Properties of MC (Medium Cure) Cutback

Grade	MC-70		MC-250		MC-800	
	Min.	Max.	Min.	Max.	Min.	Max.
Limits						
Water percent	-	0.2	-	0.2	-	0.2
Flash point (Tag. Open cup) °C	38	-	66	-	66	-
Kinematic viscosity at 60 °C	70	140	250	500	800	1600
Saybolt Furol Viscosity at 50 °C Sec.	60	120				
Saybolt Furol Viscosity at 60 °C Sec.			125	250		
Saybolt Furol Viscosity at 82.2 °C Sec.					700	1500

Storage

Bitu Cutback* has a shelf life of 12 months provided the temperature is kept within the range of 5°C to 40°C with tight lid closed container. Should the temperature of the product fall outside this range then contact your local office for advice.

Fire: **Bitu Cutback*** is solvent base and flammable.

Freezing point: Approximate – 20 °C

Estimating – Packaging

Bitu Cutback* is available in 218 Kg. Drum and bulk supply.

Pre-Heating

Need to be heated when spray.
RC-70 & RC-250 = 55 – 80 °C
RC-800 = 75 – 100 °C

MC-70 & MC-250 = 55 – 80 °C
MC-800 = 75 – 100 °C

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