



Bituaqua Prime Coat*



Protect Environment

Always Think

Green



Bitumen emulsion prime coat

Uses

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

Advantages

- Penetrate rapidly into the absorbent surface and bind the granular material together.
- Harden or toughen the surface
- Money and time saving is achieved, as no heating is required, protect environment.
- Waterproof the treated areas to make them resistant to water erosion
- Plug capillary voids.
- 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 / BS / AASHTO Standards

ASTM D140, ASTM D244, ASTM D977 & D2397
BS 434, AASHTO M-140

Description

Bituaqua Primer Coat* is emulsified bitumen; it is supplied as brown liquid, ready to dilute and use, available in three grades, Rapid Set, Medium Set and Slow Set.

CSS-1 (Cationic)
CMS-1 (Cationic)
CRS-1 (Cationic)

SS-1 (Anionic)
MS-1 (Anionic)
RS-1 (Anionic)

Properties

Appearance	: Brown liquid
Residue	: 55 - 58 %
Saybolt Furol viscosity	: 20 Sec. – 30 Sec. @ 25 °C
Particle size	: 5 – 6 microns
Settlement 5 days	: < 3%
Setting time at 30 °C	: Medium Slow
Initial set – hours	: 4 6
Final set – hours	: 24 24

Surface Preparation

Bituaqua Prime Coat* 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 **Bituaqua Prime Coat***, 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 gradation.

Application/Coverage

Broom the surface and clean the loose particles/dust by air compressor prior to the application of prime coat.

Normal Prime Coat coverage rate is 0.65 Kg. / m² to 1.00 Kg. / m².

Note:- As per NHA's General Specification, prime coat rate of application is 0.65 – 1.75 Kg. / m²

Once prime coat is sprayed allow it to penetrate and dry. Usually traffic should not be allowed on to this for 24 hours but if traffic must use the road a thin layer of sand can be spread. Final surfacing may be done next day.



Technical support

Pakistan Bitumen Company provides a technical advisory service for on-site assistance and advice on selection of prime coat grade, as per the properties of aggregate and site conditions.

Precaution / Limitation

Bituaqua Prime Coat* shall not be applied when the ambient temperature is below 10° C (50° F), or when rain is imminent.

Check the compatibility of water with emulsion in laboratory, prior to the emulsion dilution at site.

Bituaqua Prime Coat* 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 prevent spray 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 plenty of water and seek medical advice, use the appropriate means if self protection, the emulsion is non toxic, it must not be disposed to surface and 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

Bituaqua Prime Coat* does not fall into the hazard classifications of current regulations. However, 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 water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately do not induce vomiting.

Protect Environment

The primary pollutants of concern from asphalt paving operations are volatile organic compounds (VOC). Cutback asphalts are the major source of VOCs as only minor amounts of VOCs are emitted from emulsified asphalts and asphalt cements. VOC emissions from cutback asphalts result from the evaporation of the petroleum distillate used to liquefy the asphalt cement. VOC emissions can occur at both the job site and the mixing plant; however, the largest source of emissions was reported as from the road.

Asphalt emulsions are typically used in place of cutback asphalts to eliminate VOC emissions. The use of cutback asphalt is regulated in many jurisdictions to help reduce VOC emissions. Prohibitions on the use of cutback, either permanently or during certain times of the year, are common in jurisdictions that have either reached, or are nearing non attainment for ozone requirements of the Clean Air Act.

Storage

Bituaqua Prime Coat* has a shelf life of 12 months provided the temperature is kept within the range of 5 °C to 50 °C. Should the temperature of the product fall outside this range then contact your local office for advice.

Freezing point: Approximately below 0°C

Health and safety

For further information consult the Material Safety Data Sheet available for this product.

Fire

Bituaqua Prime Coat* is water base and non flammable.

Estimating – packaging

Bituaqua Prime Coat* is available in 218 kg. (Gross) or 200 Kg (Net) Drums and bulk supply also available for large users.

* Denotes the trademark registered

REGIONAL SALES OFFICES IN PAKISTAN:

Pakistan Bitumen Company Subsidiary of Fospak (Pvt) Ltd.

Head Office

702, Business Avenue,
Block-6, PECHS.
Shahra-e-Faisal,
Karachi, Pakistan
Tel # +92-21-34528477, 34529859
Fax # +92-21-34522436
Email info.khi@fospak.com.pk

Lahore Sales Office

2nd Floor Sarwar Shaheed Plaza,
Cavalry Ground,
Main Boulevard,
Lahore Cantt, Lahore.
Tel # +92-42-36675773
Fax # +92-42-36675838
Email info.lhr@fospak.com.pk

Islamabad Sales Office

Plot No. 169, Street No. 9,
Industrial Area I-10/3,
Islamabad.
Tel # +92-51-4575746
Fax # +92-51-9290590
Email info.isb@fospak.com.pk

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