



9.01 XPERT TACK COAT

Bitumen Emulsion Tack Coat

PRODUCT DESCRIPTION

XPERT Bitumen Tack Coat is an emulsified bitumen tack coat, it is supplied as brown liquid ready to use, high-quality asphalt emulsion tack coat for the bonding of two asphaltic layers and bond between concrete and asphalt, XPERT Bitumen Tack Coat is a specially designed product and ensuring a uniform and strong bond between layers of asphalt in road construction and for maintenance purposes.

USES

Tack coat is a brownish-black emulsion of asphalt that is applied to the prepared, existing asphalt or concrete surface prior to placing new hot mix asphalt. When it is placed, bonds to the layer of emulsion creating a monolithic pavement structure. Creating this bond also helps prevent water intrusion that can create potholes in asphalt works.

ADVANTAGES

- Fast dry time vs. cutback asphalt.
- Easy and uniform spray
- Low temperature cure
- Deep penetration, due to the small particle size 5 – 6 microns
- Enhances structural strength of layers
- Prevents lateral movement of structural layers.
- Water resistant and enhances shedding of water.
- Provides an impervious layer to prevent water ingress from the possible water table below.
- Creates an excellent bond between existing surface and a new course of asphalt.
- To coat and bond loose mineral particles on the original surface to be paved.
- Environmentally friendly.
- No specified temperatures to spray
- Non-hazardous.

SURFACE PREPARATION

Clean the surface with broom or with air pressure make sure that the surface is free from dust and loose particles.

APPLICATION

XPERT Bitumen Tack Coat should be applied using well-calibrated distributors to spread as evenly as possible to achieve optimum coverage. The rate of application is 0.20 – 0.65 Kg. / m². Do a test area to check the coverage.

TYPICAL PROPERTIES

CATEGORY	PARAMETERS
Appearance	Brown liquid
Residue	55 - 60 %
Say bolt Furol Viscosity	20 Sec. – 30 Sec. @ 25 °C
Particle size	5 – 6 microns
Settlement @ 5 days	< 3%
Grade	Rapid Set Medium Set
Setting time at 30 °C	1 – 4 Hours. 2 – 6 Hours

Compliance to ASTM / BS / AASHTO Standards

ASTM D140, ASTM D244, ASTM D977, D2397 BS 434, AASHTO M-140, AASHTO D242-38

TECHNICAL SUPPORT

XPERT provides a technical advisory service for on-site assistance and advice on selection of right products, as per site conditions.

PRECAUTION / LIMITATION

XPERT Bitumen Tack Coat shall not be applied when the ambient temperature is below 10° C (50° F), or when rain is imminent.

XPERT Bitumen Tack 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.

XPERT Bitumen Tack 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.

STORAGE

XPERT Bitumen Tack 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: XPERT Bitumen Tack Coat is water base and non-flammable.

Estimating – Packaging: XPERT Bitumen Tack Coat is available in 218 kg. (Gross) Drums and bulk supply.

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.

