



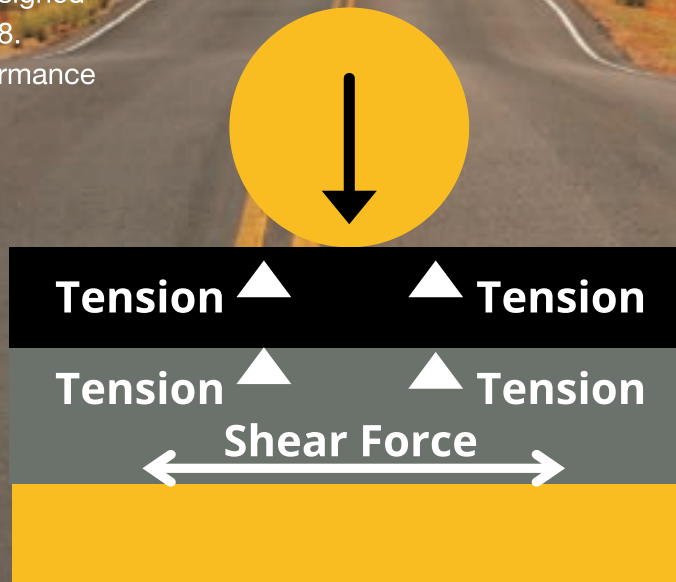
HINCOL BONDCOAT

HINCOL BONDCOAT EMULSION is a specially designed Polymer Modified Emulsion conforming to EN 13808. The product range is designed to suit desired performance under varied climatic conditions.

It has low viscosity and superior cohesion property which makes it an ideal product for spray applications like Tack Coat, Fog Seal, etc.

Effective bonding between pavement layers is regarded as a key element in providing more durable, longer lasting assets with lower maintenance requirements, reducing the risk of premature failure resulting from layer delamination or water ingress into the pavement structure.

The use of high quality **HINCOL BONDCOAT** Emulsion between each pavement layer will ensure sustainable pavements with increased service life. It provides an inexpensive insurance for the structural integrity thus preventing delamination, sliding or shoving of the pavement layers. It also has a positive impact on the fatigue life of pavements.



Applications

HINCOL BONDCOAT Emulsion is recommended for use in Tack Coat and Fog Sealing applications in Road Pavements, Runways, Taxiways, etc. The product selection is recommended to be based on the average 7 day max pavement temperature.

Advantages

- Stiffer binder at higher Temperatures to prevent Bleeding & Rutting
- More adhesion and hence resistant to Raveling and Delamination
- Less Susceptibility to moisture damages & Oxidative ageing



General Product Features

- Fast curing
- Seals minor cracks on existing asphalt surface
- Renews aged surfaces and prevents further oxidation
- Prevents slippage planes between layers
- Helps prevent raveling/stone loss on new or existing asphalt roads
- Less susceptible to moisture damage and oxidative ageing

Recommended Rate of Application

A) TACK COAT

HINCOL BONDCOAT Emulsion can be applied to an existing pavement surface to eliminate slippage of planes and provide best bond with the new Asphalt lift. The product can be applied on bituminous surface, aged bituminous surface, primed bituminous surface and non-bituminous surface.

B) FOG SEAL

HINCOL BONDCOAT Emulsion can be applied for renewal of an existing asphalt pavement which has become oxidized with age and to seal narrow cracks & surface voids. Spray rate is 0.25 to 0.5 L/Sqm (To be adjusted depending on the surface texture, degree of cracking. **Refer Fog Seal Application guidelines**).

Type of Surface	Quantity in Kg/10m2 Area
Bitumen Surface	2.0 to 2.5
<i>Aged Bitumen Surface</i>	2.5 to 3.0
<i>Primed Surface</i>	2.5 to 3.0
Non Bitumen Surface	
<i>Granular Surface (Not Primed)</i>	3.5 to 4.0
<i>Cement Concrete Pavement</i>	3.0 to 4.0

Typical Properties

	Bond Coat C50BP - 64	Bond Coat C50BP - 70	Bond Coat C50BP - 76	Test Method
Residue on Sieving, 0.5 mm	≤ 0.1	≤ 0.1	≤ 0.1	EN 1429
Efflux Time 2mm at 40C	15 - 70	15 - 70	15 - 70	EN 12846 - 1
Residual Binder recovered through distillation EN 1431				
Residual Binder	≥ 48	≥ 48	≥ 48	EN 1431
Softening Point	≥ 50	≥ 55	≥ 60	EN 1427
Elastic Recovery @25C	≥ 35	≥ 50	≥ 60	EN 13398
Residual Binder recovered through ASTM E 1868 at 110C				
Complex modulus (G*) divided by Sin delta (G*/sin δ) as Min 1.0 kPa, 25 mm Plate, 1 mm Gap, at 10 rad/s, at a temperature, °C	64	70	76	AASHTO T 315
Residual Binder recovered through ASTM E 1868 at 163C				
Complex modulus (G*) divided by Sin delta (G*/sin δ) as Min 2.2 kPa, 25 mm Plate, 1 mm Gap, at 10 rad/s at a temperature, °C	64	70	76	AASHTO T 315
Residual Binder recovered through EN1431 + AASHTO R28				
Complex modulus (G*) multiplied by Sin delta (G* sin δ) as Max 5000 k Pa, 8 mm Plate, 2 mm Gap, at 10 rad/s at a temperature, °C	18	18	18	AASHTO T 315

Packing, Storage & Handling

HINCOL BONDCOAT Emulsion is available in following packaging:

- 200 Kg steel drums / 1000 L plastic tote / Bulk loaded on non-insulated distributor or tank trucks.
- Do not allow product to either freeze or boil. Safe storage temperatures range from 10°C to 80°C.
- In bulk storage, mix the product every 1 to 2 weeks. Mixing may be done by paddle agitator (slow), loose gear pump, slow centrifugal pump, or other suitable low shear pump.
- Do not bubble air through emulsion to agitate as this may cause the emulsion to break.

Product Support

HINCOL extends a range of technical services to its valued customers. With HINCOL, you get a partner and advisor who will consult you about designs, specifications, technical services, processes, and material selection. By developing innovative custom-designed products for additional benefits, peak performance in unique conditions and improved field performances, HINCOL provide significant long-term cost savings, resulting in lowering total cost of ownerships.

Hindustan Colas

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