



## **HINMAT** **Polymer Modified Bitumen Emulsion**

HINMAT is a specially formulated Modified Bitumen Emulsion for high performing applications. It is applied with a traditional Emulsion Spraying equipment. It allows for faster paving applications and improved overall pavement strength

HINMAT is recommended to be used for Micro Surfacing applications, and are tailor made as per design and quality of site aggregates. Hinmat can also be used for Crack Seal, Fog Seal, Slurry Seal and Tack Coat applications.

### **TACK COAT**

The goal of a tack coat is to bond subsequent hot mix layers in order to approach the strength of a single, monolithic layer. Inadequate bond strength at the interfaces can lead to slippage between the bituminous layers, which may cause shoving, cracking, and other premature pavement failures

### **Benefits of HINMAT when used for Tack Coat**

Superior Bond Strength

Improved bond between pavement layers

Less shoving, cracking, and other failures associated with inadequate bond

May reduce rutting

Ultra-fast curing tack coat

### **MICROSURFACING**

Using various design mixes, techniques, and equipment, Hinmat is proved to provide superior performance attributes

In quick-traffic applications, HINMAT help increase skid resistance, color contrast, surface restoration, and service life to high-speed, heavy-traffic roadways. Such projects are often reopened to traffic within an hour.

On airfields, these emulsions ensure a skid resistant surface without loose rock that damages aircraft engines.

HINMAT help create a new, stable surface that is resistant to rutting and shoving in summer and to cracking in winter.

Because of its quick-traffic properties, HINMAT can be applied in a broad range of temperatures and weather conditions, effectively lengthening the paving season. It is particularly suitable for night applications on heavy-traffic streets, highways, and airfield.

## FOG SEAL

A fog seal is a light application of a diluted HINMAT to the surface of an aged (oxidized) pavement surface. Fog seals are low- cost and are used to restore flexibility to an existing HMA pavement surface. They may be able to temporarily postpone the need for a surface treatment or non-structural overlay.

### Benefits of HINMAT when used for Fog Seal

Seals very small cracks and surface voids

It renews old asphalt surfaces those have become dry and brittle over age

It can help delay the need for major maintenance when applied in a timely manner

#### TYPICAL PHYSICAL PROPERTIES

PARAMETER	TEST METHOD	MIN	MAX
SayboltFurol Viscosity, SFS @ 25 oC	IS 8887	20	100
Coagulation of Emulsion at low temp		IS 8887	Nil
Storage Stability, 1 day, %	IS 8887	-	2
Settlement, 7 day, %	IS 8887	-	4
Sieve Test*	IS 8887	-	0.05
TESTS ON RESIDUE			
Residue by evaporation	IS 8887	60	-
Penetration @ 25 oC	IS 1203	40	100
Softening Point (oC)	IS 1205	57	
Elastic Recovery, % Min	IS 15462	50	
Ductility at 27C	IS 1208	50	
Solubility, %	IS 1216	97	

\* The Sieve result is tested for reporting purpose only, and it may be waived if no application problems are present in the field.

#### FOR BEST RESULTS

Use HINMAT Emulsion at ambient temperature.  
Roll the Bitumen Emulsion drums at least 5 times before use

#### AVAILABILITY

Bulk.  
Packed in 200 kg Drums

## HINDUSTAN COLAS PRIVATE LIMITED

A JV OF HINDUSTAN PETROLEUM CORPORATION LTD. & COLAS SA, FRANCE

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