Rehabilitation and Maintenance Materials	
REHABILITATION AND MAINTENANCE MATERIAL   • Bituminous Spray Application • Combined Spray and Aggregate Application • Patching Materials	
MANUAL SERIES No. 19 ASPHALT INSTITUTE	

## **PURPOSES OF PRIME COATS**

- 1. To coat and bond loose aggregate particles
- 2. Waterproof Surface
- 3. Provide adhesion between unbound base and asphalt concrete layer.

## **USES OF PRIME COATS**

- To extend an unbound base layer through an extended period of time.
- Unbounded bases subjected to heavy construction traffic

## **QUANTITY USED**

Amount: Generally between 0.1 to 0.3 gal/yd<sup>2</sup>

- Weather Conditions
- Quality of unbounded base (absorption)
- Base Gradation
- Void Spaces

Type of prime Coats: SS-1, SS-1h, CSS-1 or CSS-1h.

TO IMPROVE THE WEARING SURFACE	
OF A GRANULAR BASE DURING	
CONSTRUCTION	
Apply Asphalt Emulsion	
Scarify the Top 2 to 3 Inches of Base	
Mix-in-Place	
Compact	
TACK COAT	
	-
A light application of diluted asphalt emulsion	
Used as a bonding material between two	
asphalt concrete layers.	
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Do Not Oven Apply Took Cost	
Do Not Over Apply Tack Coat	

SS - 1 SS - 1 CSS - 1 CSS - 1h Diluted material Normally Applied at a Rate of 0.05 to 0.15 gal/yd²	
Thin uniform coating of asphalt that acts as an adhesive, not a lubricant.	
KEEP TRAFFIC OFF THE TACKED AREA	

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FOG SEAL	
A light application of slow-setting asphalt	-
emulsion, diluted with water.	
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PURPOSE OF FOG SEAL	
TOM OSE OF FOO SEAD	
To renew old asphalt surface and to seal	
small cracks and surface voids.	
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GRADES FOR ASPHALT EMULSIONS	
USED FOR FOG SEALS	
SS - 1	
SS - 1h	
CSS - 1	
CSS - 1h	

DO NOT OVER APPLY FOG SEAL	
<u> </u>	
Result will be reduced skid resistance	
QUANTITY OF FOG SEAL USED	
Surface Texture	
Surface Dryness	-
Degree of Cracking / raveling	
Application rate varies between 0.1 and 0.2 gal/yd <sup>2</sup>	
	-
<u>                     </u>	
Seal Cracks As Soon As Possible	
	-
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Clean Cracks Prior to Sealing	-	
Emulsion grades used for cracks sealing:  MS-2, MS-2h, HFMS-2, HFMS-2h, SS - 1, SS - 1h, CMS - 2, CMS - 2h, CSS - 1 and CSS - 1h	-	