

# ASPHALT BINDER PLUS

**SMT-231**

REVISED 11/13/19

## PRODUCT DESCRIPTION & BENEFITS

Asphalt Binder Plus is a polymer modified anionic asphalt emulsion designed for use as a recycling agent, rejuvenator, road crack sealant, and tack coat. Asphalt Binder Plus exceeds the ISSA requirements for SS1H.

## USES

Recycling agent, rejuvenator, road crack sealant, tack coat.

## SIZES

Available in bulk, 55-gallon drums, and 5-gallon pails.

## COLOR

Dries Black.

## LIMITATIONS

Asphalt Binder Plus shall not be applied when temperature is expected to drop below 50°F within a 24 hour period after application.

## TECHNICAL DATA

Asphalt Binder Plus meets and exceeds the chemical composition and performance requirements of ASTM D977 and AASHTO M140.

## ENVIRONMENTAL CONSIDERATIONS

Asphalt Binder Plus is an environmentally friendly water based asphalt emulsion containing less than 30 grams per liter volatile organic content (VOC).

## PHYSICAL/CHEMICAL PROPERTIES

Asphalt Binder Plus meets the following specifications when tested in accordance with ASTM D140 and ASTM D244 test procedures (see chart below).

Chemical & Physical Analysis	
<b>Tests on Emulsion:</b>	
Viscosity, Saybolt Furol at 77°F (25°C), s	36
Storage Stability Test, 24-h, %	1
Cement Mixing Test, %	< 2%
Sieve Test, %	0.013
Residue by distillation, %	65% ± 2%
<b>Test on Residue:</b>	
Penetration, 77°F (25°C) 100g, 5s	55
Ductility, 77°F (25°C) 5 cm/min, cm	> 150
Softening Point, R&B, °F	> 130
Toughness, inch-pounds	> 80
Tenacity, inch-pounds	> 60
Solubility in trichloreethylene, %	> 97.5

## INSTALLATION

Surface must be cleaned of dust, dirt and debris.

## METHODS

Asphalt Binder Plus can be applied by spray or brush.

## MIXING/APPLICATION PROCEDURES

Recycling Agent For Infrared Patching: Use material as is. Dilution is not required.

Fog Seal or Rejuvenator: Dilute 1 to 1 with water and apply to old oxidized pavement to replenish the asphalt binder that is lost through aging, oxidation, and weathering. Apply by spray at a rate of .06 to .10 gallons of mixed material per square yard (.03 to .05 concentrate Asphalt Binder Plus per square yard). Do not apply to smooth pavement surfaces. Do not over apply and create a slick surface. Pavement must have porosity and profile to maintain friction for vehicles.

Tack Coat For Patching or Paving: Dilute 1 to 1 with water. Apply by spray or brush. Apply at a rate of .06 to .10 gallons of mixed material per square yard (.03 to .05 concentrate).

## ESTIMATING MATERIAL REQUIREMENTS

To estimate gallons of Asphalt Binder Plus required to cover a specific area, use the following coverage rates:

Recycling Agent For Infrared Patching:  
 Indefinite. Dependent upon material requirements.

Fog Seal or Rejuvenator:  
 .03 to .05 gallons per square yard.

Tack Coat For Patching or Paving:  
 .03 to .05 gallons per square yard.

## WARRANTY AND DISCLAIMER

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved application practices. As workmanship, weather, construction, condition of pavement, tools utilized, and other variables affecting results are all beyond our control, the manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. The manufacturer expressly disclaims any implied warranties of merchantability or fitness for a particular purpose.