

ASPHALT BINDER

SMT-230

REVISED 11/13/19

PRODUCT DESCRIPTION & BENEFITS

Asphalt Binder is an anionic asphalt emulsion designed for use as a tack coat for patching, paving, and coating processes. Asphalt Binder promotes adhesion of bituminous concrete products and coatings. Asphalt Binder also meets the ISSA requirements for SS1H.

USES

Asphalt Binder is designed as an adhesion promoter for patching, paving, and coatings.

COMPOSITION

Asphalt Binder is comprised of asphalt, water, emulsifiers, and surfactants.

SIZES

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

COLOR

Dries Black.

LIMITATIONS

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

TECHNICAL DATA

Asphalt Binder meets the chemical composition and performance requirements of ASTM D977 and AASHTO M140, and the ISSA requirements for SS1h.

ENVIRONMENTAL CONSIDERATIONS

Asphalt Binder is an environmentally friendly water based asphalt emulsion containing less than 25 grams per liter volatile organic content (VOC).

PHYSICAL/CHEMICAL PROPERTIES

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

INSTALLATION

Surface must be cleaned of dust, dirt and debris.

METHODS

Asphalt Binder can be applied by spray, brush, or squeegee.

Sieve Test, %	0.013
Residue by distillation, %	65% ± 2%
Test on Residue:	
Penetration, 77°F (25°C) 100g, 5s	55
Ductility, 77°F (25°C) 5 cm/min, cm	40 min
Solubility in trichloreoethylene, %	> 97.5

MIXING PROCEDURES

Primer For Coatings: For use as a primer for coatings (such as asphalt, coal tar, or acrylic pavement sealers) dilute Asphalt Binder with water as follows (based on 10 gallons for ease of calculation):

- Asphalt Binder.....10 gals.
- Water.....80 gals.

NOTE - DO NOT USE Asphalt Binder at full strength as a primer for coatings. It must be diluted with water in accordance with above mixing instructions.

For Use As A Tack Coat For Patching Or Paving:

- Asphalt Binder.....10 gals.
- Water.....10 gals.

APPLICATION

Apply properly mixed Asphalt Binder (Asphalt Binder, Water) with spray equipment, brush, or squeegee. Stir material thoroughly before applying.

IMPORTANT

Apply coatings, patching materials, or paving materials as soon as possible after Asphalt Binder dries (within 24 hours) in order to maintain tackifying properties.

APPLICATION RATE FOR DILUTED ASPHALT BINDER

For Use As A Primer For Coatings: Apply properly diluted Asphalt Binder (1 part Asphalt Binder, 8 parts water) at a rate of .07 - .10 gallon per square yard (90-130 square feet per gallon).

For Use As A Tack Coat For Patching Or Paving:

Apply properly diluted Asphalt Binder (1 part Asphalt Binder, 1 part water) at a rate of .07 - .10 gallon of mix per square yard (90-130 square feet per gallon of mix).

ESTIMATING MATERIAL REQUIREMENTS

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

For Use As A Primer For Coatings: One gallon of Asphalt Binder will cover approximately 800-1,170 square feet (89-130 square yards) when diluted properly (1 part Asphalt Binder, 8 parts water).

Chemical & Physical Analysis	
Tests on Emulsion:	
Viscosity, Saybolt Furol at 77°F (25°C), s	36
Storage Stability Test, 24-h, %	1
Cement Mixing Test, %	< 2%

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For Use As A Tack Coat For Patching Or Paving:

One gallon of Asphalt Binder will cover approximately 180-260 square feet (20-29 square yards) when diluted properly (1 part Asphalt Binder, 1 part water).

NOTE - Coverage Rates may vary due to pavement age and porosity.

PRECAUTIONS

Both surface and ambient temperature shall be a minimum of 50°F. Temperature shall not drop below 50°F in a 24 hour period following application. Keep Out Of Reach Of Children. Do not store unopened containers in freezing temperatures.

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.

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