

# PRODUCT DATA BULLETIN II

## CONCRETE PRIMER

### DESCRIPTION AND PURPOSE:

SWEPCO Concrete Primer is a liquid asphalt primer manufactured from SWEPCO's specially selected and refined "Heart of Texas" Asphalt and selected waterproofing additives. It is designed for priming and sealing bare concrete decks prior to installation of a SWEPCO Roof System.

### OUTSTANDING FEATURES:

#### CONCRETE DECKS PRESENT SPECIAL BONDING PROBLEMS

Concrete decks present special roofing problems because they naturally tend to produce a layer of dust and scale that is difficult to remove by conventional cleaning methods. This powdery layer prevents proper bonding of roof adhesives. If not dealt with properly, the dust and scale considerably weakens the built-up system, causing the roof to deteriorate more rapidly.

#### SOLVES PROBLEMS OF DUST AND SCALE, CREATING A HIGHLY BONDABLE DECK

SWEPCO Concrete Primer is a low viscosity primer which allows it to penetrate deep into porous concrete, absorbing the existing dust and scale and preventing the formation of additional dust and scale.

The resulting surface permits proper bonding of other roofing adhesives and materials, improving the roof's strength, uplift resistance and resistance to blistering, wrinkling and other roofing problems.

### SEALING ACTION HELPS PREVENT MOISTURE PROBLEMS

Concrete naturally retains a certain amount of moisture. This moisture has a tendency to migrate upward into the roof system, causing blistering and delamination. But SWEPCO Concrete Primer helps seal the pores of the roof deck, preventing many common moisture problems associated with concrete decks.

### SAFE AND EASY TO APPLY

SWEPCO Concrete Primer is applied straight from the container using a brush, squeegee, roller or airless spray equipment. It requires no heating, thinning or mixing, and needs no large labor crews.



## GENERAL DATA:

## TYPICAL PHYSICAL PROPERTIES

Viscosity, Saybolt Furol, @77°F (25°C) (ASTM D-88) .....	25-70
Specific Gravity, @60°F (15.5°C) (ASTM D-3142) .....	0.87
Unit Weight, lb/gal (ASTM D-3142) .....	7.2
Unit Weight, kg/liter (ASTM D-3142) .....	0.87
Drying Time, to Touch, hours .....	1-2
Drying Time, Through, hours .....	24
Flash Point, T.O.C., °F (°C), min (ASTM D-1343) .....	105 (40.5)
Wet Film Thickness, 1 gal/100 ft <sup>2</sup> , mil (Calculation) .....	16
Wet Film Thickness, 1 liter/m <sup>2</sup> , mm (Calculation) .....	1.0
Dry Film Thickness, 1 gal/100 ft <sup>2</sup> , mil (Calculation) .....	6.4
Dry Film Thickness, 1 liter/m <sup>2</sup> , mm (Calculation) .....	0.40
Color .....	Black
Odor .....	Petroleum Naptha

## TYPICAL PERFORMANCE PROPERTIES

Workability . Permits application by brush, squeegee, roller or airless spray equipment	
Behavior, @120°F (48.8°C) .....	No blistering, sagging or running
Pliability, @32°F (0°C) .....	No cracking or separation
Adhesion to Dry Surfaces (Rock Method) .....	Excellent
Accelerated Weathering, hours (ASTM G-53) .....	3,000*
Film Appearance .....	Good
Peeling and Chipping .....	None
Erosion .....	Slight
Water Penetration .....	NIL
Chalking .....	Slight Storage
Stability .....	1 Year

## TYPICAL CHEMICAL PROPERTIES

Non Volatiles, % wt (ASTM D-402) .....	40
Volatiles, % wt (ASTM D-402) .....	60
Asphalt Portion Soluble in CS <sub>2</sub> (ASTM D-4) .....	99.9
Water Content, max (ASTM D-95) .....	0.5
Asphalt and Solvents, % wt .....	99.8
Additives, % wt .....	0.2
Resistance to Mild Acids and Alkali .....	Good
Resistance to Petroleum Solvents .....	Poor, causes softening of the asphalt
Resistance to Water .....	Good

## APPLICABLE SPECIFICATIONS

ASTM D-41-78

U.S. Federal Specification SS-A-701B

Canadian Government Specification Board Standard 37-GR-9M

\*NOTE: This is roughly equivalent to eight years of exposure to ultra-violet radiation, heat and moisture generally encountered in field service.

## APPLICATION INFORMATION:

**IMPORTANT:** SWEPCO Concrete Primer is a liquid asphalt primer designed for priming and sealing bare concrete roof decks prior to installation of SWEPCO Built-Up Roof Systems. The instructions provided here refer to this product only. For complete application instructions, consult the brochure entitled "SWEPCO Built-Up Roof System General Specifications" and the appropriate Built-Up Roof System Specification Sheet.

**PREPARATION:** The bare concrete deck shall meet all requirements contained in the brochure "SWEPCO Built-Up Roof System General Specifications" prior to application of SWEPCO Concrete Primer. The roof surface should be sound and should drain water freely. Because standing water accelerates deterioration of all asphalt roofing products, every effort should be made to isolate and correct the causes of any standing water or ponding on the roof. A minimum slope of 1/4 in. per foot (2%) is recommended. When this is not possible, SWEPCO Products can still be applied and will provide temporary protection for such areas. However, it must be understood that performance of SWEPCO Products cannot be guaranteed in any area of the roof subject to standing water.

**APPLICATION:** SWEPCO Concrete Primer is applied straight from the container with standard roofing brushes, squeegees, paint rollers or airless spray equipment at the minimum coverage rate recommended below. It requires no heating, thinning or mixing. (For specific information concerning spray application contact Southwestern Petroleum Corporation.)

**APPLICATION PRECAUTIONS:** Do not apply to wet or damp roof surfaces.

### MINIMUM COVERAGE RATES:

All Concrete Surfaces..... 0.5-1.0 gal. per  
100 sq. ft. (0.20-0.41 liter/m<sup>2</sup>)

NOTE: This coverage rate is our minimum coverage rate. Do not under apply the product as this can adversely affect product performance and will negate any guarantee to which the product may be subject.

**CURING:** Allow SWEPCO Concrete Primer to become dry to touch before proceeding with additional roofing work. Under normal conditions, this will usually take approximately 30 minutes.

**CLEAN-UP:** SWEPCO Concrete Primer can be removed from tools and other areas with kerosene or mineral spirits.

**ADDITIONAL INFORMATION:** For additional information or recommendations, write: Southwestern Petroleum Corporation, P.O. Box 961005, Fort Worth, Texas 76161-0005; Southwestern Petroleum Canada Ltd., 87 West Drive, Brampton, Ontario, Canada L6T 2J6; or N. V. Southwestern Petroleum Europe S.A., P.O. Box No. 3, B-2390 Oostmalle, Belgium.

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## APPLICATION INFORMATION

*(Continued)*

## SAFETY PRECAUTIONS

### HARMFUL OR FATAL IF SWALLOWED - COMBUSTIBLE

Contains Petroleum Distillates

If swallowed, do not induce vomiting. Call physician immediately. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged breathing of vapors. Use with adequate ventilation. Store and use away from heat and open flame. If ignited, extinguish with CO<sub>2</sub>, foam or dry chemicals. Close container tightly after each use. Do not transfer to unlabeled or breakable containers. Use only for purposes intended. Keep out of reach of children.

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