

# PRODUCT DATA BULLETIN II

## WHITE ACRYLIC COATING

### DESCRIPTION AND PURPOSE:

SWEPCO White Acrylic Coating is a high quality water base white coating which reflects up to 90% of the sun's radiation. It is designed to provide an attractive reflective surface for a wide variety of industrial and commercial roofs.

### OUTSTANDING FEATURES:

#### STATE OF THE ART COATINGS TECHNOLOGY

SWEPCO White Acrylic Coating is a product of the latest technology in acrylic coatings, using a high ratio of premium grade elastomeric acrylic polymers. The tough acrylic film created has excellent elongation, flexibility and bondability. It also has a superior resistance to deterioration. This all means it is a better investment, providing long lasting protection and energy efficiency.

#### REFLECTS THE SUN'S HEAT PRODUCING INFRA-RED RADIATION

By reflecting the sun's heat producing radiation, SWEPCO White Acrylic Coating helps reduce interior cooling loads of air conditioned structures, resulting in savings of both energy and money. And buildings without air conditioning stay cooler because roof surface temperatures are significantly reduced.

#### ALSO REFLECTS THE SUN'S DAMAGING ULTRA-VIOLET RADIATION

Ultra-violet radiation is the number one cause of deterioration of asphalt roof membranes. By reflecting a significant portion of this damaging form of radiation, SWEPCO White Acrylic Coating retards oxidation of the asphalt, prolongs the life of the roof and reduces maintenance costs.

#### BEAUTIFIES A WIDE VARIETY OF COMMERCIAL & INDUSTRIAL ROOF TYPES

SWEPCO White Acrylic Coating cures to a brilliant white roof surface which is compatible with smooth asphalt, gravel covered asphalt, sound corrugated asbestos cement, metal and mineral or granule surfaced roofs, including composition shingle roofs. It also performs well on most varieties of porous, "non-glazed" roofs tiles which are not exposed to traffic and is especially well suited for many modified bitumen and urethane roofs.



GENERAL DATA:

TYPICAL PHYSICAL PROPERTIES

Viscosity Stormer, Ku, @77°F (ASTM D-88)	95-105
Specific Gravity @60°F (15.5°C) (ASTM D-1475)	1.3
Unit Wt, lb/gal	10.6
Unit wt, kg/liter	1.3
Drying time, to touch, hrs	2
Drying time, through, hrs	24
Wet film thickness, 1 gal/100 ft <sup>2</sup> , mil	16
Wet film thickness, 1 liter/m <sup>2</sup> , mm	1
Dry film thickness, 1 gal/100 ft <sup>2</sup> , mil	6
Dry film thickness, 1 liter/m <sup>2</sup> , mm	0.37
Color	White, can be tinted to pastel colors
Flash Point	Water base

TYPICAL PERFORMANCE PROPERTIES

Reflectance, %	90
Tensile Strength, PSI (ASTM D-412)	275
Elongation, % (ASTM D-412)	300
Hardness, Shore A, (ASTM D-2240)	60
Low temp flexibility, @20°C (ASTM D-2136)	Pass 180 bend
Ultraviolet resistance (ASTM G-53)	No deleterious effects after 2000 hours of exposure
Whiteness retention (ASTM G-53)	Excellent after 2000 hours accelerated weathering
Permeability perm (ASTM D-1653)	1.5

TYPICAL CHEMICAL PROPERTIES

Vehicle, % wt	73
Pigments, % wt	27
Volatile, % wt	50
Non-volatile, % wt	50

## APPLICATION INFORMATION:

**IMPORTANT:** SWEPCO White Acrylic Coating is not a waterproofing material. It is recommended only for use over roofs which are already waterproof or roofs which require no waterproofing. It is recommended for use over smooth surface asphalt roofs, granule or other aggregate covered asphalt roofs, sound corrugated asbestos cement roofs, exposed metal roofs, many modified bitumen roofs and urethane roofs. In addition, it performs well on most varieties of porous, "non-glazed" roof tiles which are not exposed to traffic. It is not designed for direct application to glazed roofing tiles or coal tar pitch base products.

**PREPARATION:** The roof surface should be sound and should drain water freely. Because standing water accelerates deterioration of all 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 ¼ in. per foot (2%) is recommended. It must be understood that performance of SWEPCO Products cannot be guaranteed in any area of the roof subject to standing water. If the roof surface is not sound and leak free, it is advisable to perform necessary roof maintenance. On asphalt, metal and corrugated asbestos cement roofs, the condition of the roof may indicate a need for almost any combination of Heavy Duty or Flex•Shield Patching Compound, Heavy Duty Patching Fabric, Heavy Duty or Flex•Shield Primer, Heavy Duty or Flex•Shield Roof Coating, Heavy Duty PolyMaster, prior to application of SWEPCO White Acrylic Coating. (See instructions for these related products.) Urethane roofs should only be repaired with materials recommended by the manufacturer. The old surface must be swept free of all dust, dirt, debris and loose gravel or other aggregate. On dirty surfaces, a thorough washing with clean water is necessary to get the surface clean enough for a good bond. Allow to dry thoroughly before application.

**TINTING:** SWEPCO White Acrylic Coating can be tinted up to a maximum of 5% by volume with any standard acrylic latex pigment dispersed in a liquid vehicle. This will result in pastel color shades. Insure thorough mixing prior to application and periodic stirring during prolonged applications. Mechanical mixing with standard mixing apparatus is highly recommended to help assure uniform color. Please note, any alteration of the color of SWEPCO White Acrylic Coating by tinting will diminish the reflectivity of the finished coating.

**APPLICATION:** SWEPCO White Acrylic Coating is applied straight from the container with standard paint brushes, paint rollers or airless spray equipment at the recommended coverage rates below. It requires no heating or thinning. It should, however, be stirred thoroughly prior to application and periodically during prolonged applications. A two-coat application is required. The first coat should be allowed to dry for approximately two hours or until dry to touch before applying the second coat. The second coat should then be applied with brush or roller strokes perpendicular to the first coat. This improves hiding power and reflectivity of the finished surface. (For Specific recommendations concerning spray application, contact Southwestern Petroleum Corporation.)

**APPLICATION PRECAUTIONS:** SWEPCO White Acrylic Coating will freeze. It should not be applied in temperatures below 40°F (5°C) or if temperature is expected to drop within 24 hours after application. Do not apply in rainy weather or if rain is expected in 24 hours. Do not apply to areas subject to heavy roof traffic. Avoid thick build-ups or puddles of the coating as this can lead to shrinkage, cracking and peeling. Do not apply to solvent-base roof coatings, such as Heavy Duty Roof Coating, until they have been allowed to cure for a minimum of 60-90 days. Do not apply to emulsion-type roof coatings, such as SWEPCO Flex•Shield Roof Coating, until the coating has been allowed to cure for a minimum of 14 days.

### MINIMUM COVERAGE RATES:

Over Smooth Surfaces..... Two Coats,  
each at 0.50 gal. per 100 sq. ft. (0.20 liter/m<sup>2</sup>)

Over Rough Surfaces such as Urethane Surfaces ..... Two Coats,  
each at 1.00 gal. per 100 sq. ft. (0.41 liter/m<sup>2</sup>)

NOTE: These coverage rates are our minimum coverage rates. Do not under-apply the product as this can adversely affect product performance.

**DRYING:** Depending on temperature and humidity, tack free drying of SWEPCO White Acrylic Coating normally occurs in one to two hours. Complete drying normally occurs within 24 hours.

**CLEAN-UP:** SWEPCO White Acrylic Coating can be cleaned from tools and other areas with soap and water, provided it has not been allowed to dry. After it has dried, it must be scraped off.

## APPLICATION INFORMATION

(Continued)

**STORAGE:** SWEPCO White Acrylic Coating has a minimum shelf life of one year, if stored tightly sealed at normal building temperatures. IT MUST BE PROTECTED FROM FREEZING IN TRANSIT AND STORAGE.

**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.

### SAFETY PRECAUTIONS

**HARMFUL OR FATAL IF SWALLOWED - IRRITANT**

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Do not take internally. Do not transfer to unlabeled or breakable containers. Use only for purposes intended. Keep out of reach of children.

### **EFFECTS OF OVEREXPOSURE:**

Contact with eyes or prolonged or repeated contact with skin can cause irritation and inflammation. Harmful if swallowed; aspiration into lungs can cause serious injury or death.

**FIRST AIR PROCEDURES:** Eye Contact - Flush with water for 15 minutes. If pain or redness persists, seek medical attention immediately. Skin Contact - Wash thoroughly with soap and water after wiping off excess material. If irritation persists, seek medical attention. Ingestion - IF CONSCIOUS, give water and induce vomiting. When vomiting occurs, keep head below hips to prevent aspiration. **SEEK MEDICAL ATTENTION IMMEDIATELY.**

Consult Material Safety Data Sheet (MSDS) for this product or call Southwestern Petroleum Corporation at (817) 332-2336 for further health and safety information.

