

APPLICATION INFORMATION

(Continued)

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., Box No. 3, B-2390 Oostmalle, Belgium.

SAFETY PRECAUTIONS

HARMFUL OR FATAL IF SWALLOWED

Contains Butyl Alcohol, Butyl Cellosolve & Ammonia

If swallowed, do not induce vomiting. Call physical immediately. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. If exposed, flush exposed area with water for five minutes. Avoid prolonged breathing of vapors. Use with adequate ventilation. 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.

THIS PRODUCT IS NOT A HAZARDOUS MATERIAL AS DEFINED BY U.S. DEPARTMENT OF TRANSPORTATION 49 CFR PARTS 171-177

PRODUCT DATA BULLETIN II

WHITE ROOF SHIELD

DESCRIPTION AND PURPOSE:

SWEPCO White Roof Shield is a high quality water base white coating which reflects 80% 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:

REFLECTS THE SUN'S HEAT PRODUCING INFRA-RED RADIATION

By reflecting the sun's heat producing radiation, SWEPCO White Roof Shield helps reduce interior cooling loads of air conditioned structures, resulting in savings of both energy and money. Even 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 Roof Shield 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 Roof Shield 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" roof tiles which are not exposed to traffic.

SOUTHWESTERN
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SWEPCO®, "Heart of Texas" Asphalt®, TRI-MASTIC®, Zonamine™, ZHD-7™, Flex•Shield®, Uni+Shield®, Dia-Seal™, PolyForm® and PolyMaster® are trademarks of Southwestern Petroleum Corporation

GENERAL DATA:

TYPICAL PHYSICAL PROPERTIES

Viscosity, @77°F (25°C), KU (ASTM D-88)	79-90
Specific Gravity @60°F (16°C) (ASTM D-3142)	1.03
Unit Weight, lb/gal (ASTM D-3142)	10.56
Unit Weight, kg/liter (ASTM D-3142)	1.03
Drying Time, Tack Free, hours	1-2
Drying Time, Through, hours	24
Flash Point	N.A. (water base)
Wet Film Thickness, @1 gal/100 ft ² , mil (Calculation)	16.00
Wet Film Thickness, @1 liter/m ² , mm (Calculation)	1.00
Dry Film Thickness, @1 gal/100 ft ² , mil (Calculation)	6.08
Dry Film Thickness, @1 liter/m ² , mm (Calculation)	0.38
Color	White
Odor	Alcohol

TYPICAL PERFORMANCE PROPERTIES

Workability	Permits application by brush, roller or spray
Reflectance	80%
Gloss	15
Accelerated Weathering, Hours (ASTM G-53)	3000
Peeling	None
Erosion	Slight
Alligatoring	None
Chalking	Slight
Storage Stability	One Year

TYPICAL CHEMICAL PROPERTIES

Non Volatile, % wt (Evaporation)	50
Non Volatile, % vol (Evaporation)	38
Pigment Volume Concentration (Calculation)	27
Vehicle, % wt	72
Water, % wt	61
Resin, % wt	24
Co-solvents, % wt	15
Pigment, % wt	25.59
Titanium Dioxide, % wt	57.1
Mica, % wt	13.3
Talc, % wt	29.6
Additives, %wt	2.41

APPLICATION INFORMATION:

IMPORTANT: SWEPCO White Roof Shield 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; gravel, granule or other aggregate covered asphalt roofs; sound corrugated asbestos cement roofs; and exposed metal 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 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 inch 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 with Heavy Duty or Flex•Shield Patching Compound, Heavy Duty Patching Fabric, Heavy Duty or Flex•Shield Primer and/or Heavy Duty or Flex•Shield Roof Coating and Heavy Duty PolyForm or PolyMaster, prior to application of SWEPCO White Roof Shield. (See instructions for these related products.) 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 Roof Shield can be tinted up to a maximum of 5% by volume with any standard latex (water-base) pigment dispersed in a liquid vehicle. Mix thoroughly prior to application and stir periodically 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 Roof Shield by tinting will diminish the reflectivity of the finished coating.

APPLICATION: SWEPCO White Roof Shield 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 be installed at a 90 degree angle to the first coat. (For specific recommendations concerning spray application, contact Southwestern Petroleum Corporation.)

APPLICATION PRECAUTIONS: SWEPCO White Roof Shield 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 Rough Surfaces — Two Coats, Each at 0.50 gal. per 100 sq. ft. (0.20 liter/m ²)
Over Smooth Surfaces — Two Coats, Each at 0.38 gal. per 100 sq. ft. (0.15 liter/m ²)

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 Roof Shield normally occurs in one to two hours. Complete drying normally occurs within 24 hours.

CLEAN-UP: SWEPCO White Roof Shield can be cleaned from tools and other areas with soap and water, provided it has not been allowed to dry.

STORAGE: SWEPCO White Roof Shield has a minimum shelf life of one year if stored tightly sealed at normal room temperatures. AS A WATER BASE PRODUCT, IT MUST BE PROTECTED FROM FREEZING IN TRANSIT AND STORAGE.