

## APPLICATION INFORMATION

(Continued)

(19 liter) pail of base material, to yield a final mixture of 5 gallons (19 liters). Mix for a minimum of 5 minutes to insure a uniform blend. Avoid drills with higher rpm ratings and mixing attachments that "whip" the coating as these can introduce excessive amounts of air into the mixture.

**APPLICATION:** Begin application immediately after mixing.

**Reinforcing Stress Areas** -- Coat each area requiring reinforcement at the rate of 2.5 gal. per 100 sq. ft. (1.02 l/m<sup>2</sup>). Long nap rollers or soft bristled brushes can be used for small areas. Embed a ply of Heavy Duty PolyMaster Reinforcing Membrane of the appropriate size into the wet coating. Be sure to apply enough coating at bulky lap joints to permit proper embedding of PolyMaster across the joint.

Immediately broom the PolyMaster into the wet coating to eliminate all air pockets or wrinkles. After brooming, the Heavy Duty PolyMaster should be totally black, with no white areas remaining. If coating the entire roof, coating can begin as described below as soon as reinforcement is in place. If not coating the entire roof, a final coat of Guardian Seamless Roof Coating should be applied over the reinforced area at the rate of 2.5 gal. per 100 sq. ft. (1.02 l/m<sup>2</sup>).

**Coating Roof Surface** -- (All seams and other surface irregularities and all edge, wall and protrusion flashings should be reinforced as detailed above before coating the entire roof surface.) Pour straight from the container and spread at the recommended coverage rate with the appropriate size notched squeegee, using as few strokes of the squeegee as possible to obtain even coverage. **It is very important to apply a continuous and uninterrupted film of material over the entire surface.** As soon as the surface dries, it should be closely inspected for voids in coverage. Any voids should be touched up to insure 100% coverage before application

of reflective coating.

**APPLICATION PRECAUTIONS:** Use material within 30 minutes of mixing. Use properly sized

notched squeegee for application. Do not allow coating to build up in squeegee notches as this will adversely affect the coverage rate of the squeegee. Clean notched squeegees frequently with xylene or mineral spirits. Wipe off excess solvent after cleaning. Avoid unnecessary squeegee strokes as this

can inhibit self-leveling. Do not apply to wet or damp surfaces. Temperature should be at or above 40°F (4°C) and rising. Do not apply if dew points are within 5°F (3°C) of the ambient temperature as this could cause condensation of atmospheric moisture on the curing surface. Do not apply in rainy, foggy or damp weather or if rain is expected before complete curing can take place. **Guardian Seamless Roof Coating must be coated with Aluminum Roof Shield or other SWEPCCO Reflective Coating after it has cured for a minimum of 72 hours.**

**MINIMUM COVERAGE RATE:** 2.50-5.00 gal. per 100 sq. ft. (1.02-2.04 liter/m<sup>2</sup>) depending upon system use, surface type and texture. Use 3/16-inch notched squeegees for 2.5 gal. per 100 sq. ft. (1.02 liter/m<sup>2</sup>). Squeegees must be kept clean to achieve proper coverage.

**NOTE:** This coverage rate is a minimum coverage rate. Do not under apply the product as this can adversely affect product performance.

**CURING:** Curing depends greatly upon temperature and humidity. However, it will usually support light foot traffic 30 to 90 minutes. Do not apply additional reflective or protective coatings over this coating until it has been allowed to cure for 72 hours.

**STORAGE:** Shelf life is one year if containers are kept tightly sealed and kept from excessive temperatures. The activator will crystallize or jelly with age or if subjected to cold temperatures, but can be restored to its original solution by heating in a pot of hot water (150-160°F or 65-70°C) with occasional shaking until the activator returns to a brown liquid.

**CLEAN-UP:** Clean promptly from tools and other areas with xylene or mineral spirits. Once cured, it is extremely difficult to remove.

**ADDITIONAL INFORMATION:**

For additional information or recommendations, write: Southwest Petroleum Corporation, 534 North Main Street, Fort Worth, Texas 76164-9507; Southwest Petroleum Canada Ltd., 87 West Drive, Brampton, Ontario,

Canada L6T 2J6; or N. V. Southwestem Petroleum Europe S.A., Industrieweg 6, B-2390 Oostmalle, Belgium.

**SAFETY PRECAUTIONS**

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wear protective goggles, gloves and clothing. Avoid prolonged breathing of vapors. Use with adequate ventilation or approved respirators in confined areas. Do not take internally. Store and use away from heat, open flame or spark sources. 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.

**EFFECTS OF OVEREXPOSURE:**

Contact with eyes or prolonged or repeated contact with skin can cause irritation and inflammation. Prolonged breathing of vapors can cause respiratory difficulty, dizziness, headache, nausea, irritation of nose or throat, drowsiness, fatigue, pneumonitis, pulmonary edema or central nervous system depression. Ingestion can cause symptoms similar to inhalation; aspiration into lungs can cause serious injury or death.

**FIRST AID PROCEDURES:** Eye contact - Flush with water for 25 minutes. If pain or redness persists

seek medical attention immediately. Skin Contact - Wash with soap and water wiping off excess material. If irritation persists, seek medical attention. Inhalation - Remove to fresh air. If breathing difficulty persists, give oxygen or resuscitate and SEEK MEDICAL ATTENTION IMMEDIATELY. Ingestion - Do NOT induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration. SEEK MEDICAL ATTENTION IMMEDIATELY.

**PHYSICAL EMERGENCY PROCEDURES:** If ignited, extinguish with CO<sub>2</sub> or dry chemicals. Water or foam may cause frothing. Water may be used to keep containers cool or flush spills away from area of involvement.

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

## GUARDIAN SEAMLESS ROOF COATING

*For Maintaining All Types of Asphalt Based Roofs and Synthetic Roofing Membranes*

## DESCRIPTION AND PURPOSE:

SWEPCCO Guardian Seamless Roof Coating is a black, liquid, polymer enhanced elastomeric urethane roof coating manufactured from a high solids content of premium quality polymers, urethane resins, virgin rubber, "Heart of Texas" Asphalt, finely milled blue black slate and other proprietary chemical additives which extend performance. Excellent bond adhesion, elongation, cold flex, impact resistance and resistance to acid rain and harsh industrial environments make it ideal for use in restoring weathered roofs.

Compatible with and recommended for maintenance of asphalt based roofs and EPDM (Rubber), PVC (Plastic), TPO (Thermoplastic Olefin), SPUF (Sprayed-in-place Polyurethane Foam), CSPE (Hypalon®), PIB Polyisobutylene) & CPE (Chlorinated Polyethylene) roofs. It provides excellent performance in both complete waterproofing systems or as a spot repair material for seams or other trouble spots.

## OUTSTANDING FEATURES:

**FORMULATED SPECIFICALLY FOR MAINTAINING ASPHALT AND SYNTHETIC ROOFING MEMBRANES**

Guardian Seamless Roof Coating is formulated specifically for maintenance of asphalt and synthetic roofing membranes. It is the perfect choice for economical restoration of the most common types of synthetic roofs. In fact, timely periodic application of Guardian Seamless Roof Coating can make

synthetic membranes last long past their design service life.

**ADVANCED FORMULATION PROVIDES UNSURPASSED PERFORMANCE**

Exceptional elongation, cold weather flexibility, tensile strength, impact and hail resistance, resistance to ultraviolet degradation, resistance to caustic industrial environments mean Guardian Seamless Roof Coating provides reliable performance. Advanced polymer enhancement technologies and the latest urethane chemistries have yielded a coating with unsurpassed real world performance.

Guardian Seamless Roof Coating outlasts competitive coatings because it is flexible enough to accommodate natural building stresses and tough enough to endure the damaging effects of blazing sun, freezing cold and polluted environments.

**SUPERIOR INGREDIENTS INSURE LONG SERVICE LIFE**

Superior performance is the result of more than just an advanced formulation. Only the world's finest raw materials and chemical additives are used in the manufacture of Guardian Seamless Roof Coating. From the hi-tech resins to SWEPCCO's exceptionally effective oxidation inhibitor, you can be sure you are specifying top performance when you specify Guardian.

**BONDS TIGHTLY**

Guardian Seamless Roof Coating provides reliable waterproofing for the most common synthetic and asphalt based roof types. In the past, owners of these types of synthetic single-

**SOUTHWESTERN PETROLEUM CORPORATION FORT WORTH, TEXAS U.S.A.**



ply membranes had no real maintenance solutions. But Guardian makes it possible to restore these roofs and avoid the high costs of tear off, disposal and replacement.

### EXCEPTIONALLY VERSATILE

Because of its extraordinary physical characteristics and weathering properties, Guardian Seamless Roof Coating is an exceptionally versatile product for spot repairs and maintenance as well as full waterproofing systems. Difficult areas and problematic roofing configurations are easily waterproofed with Guardian. Large and small pitch pans, deteriorated low areas, tight mechanical areas, under air-conditioning units and chillers . . . if it involves waterproofing on asphalt roofs or synthetic roof membranes, Guardian can handle it.

### USE WITH HEAVY DUTY POLYMASTER FOR HIGH STRESS AREAS

For those areas that require extra resistance to stress, such as seam reinforcement, Guardian Seamless Roof Coating can be used with Heavy Duty PolyMaster for unsurpassed strength. Simply embed Heavy Duty PolyMaster in an initial coat of Guardian Seamless Roof Coating and then apply a finishing coat. The result is a superior, seamless, reinforced membrane with tensile strength in excess of 2600 PSI. These qualities also make it especially effective for repair of cracks and other deteriorated areas in the open field of roof membranes.

### FAST, LABOR SAVING APPLICATION

Guardian Seamless Roof Coating is a labor saving solution.

Smaller crews and faster application mean less money goes to labor and more money goes towards a high performance roof. Simply mix, pour and spread. Special notched squeegees insure proper coverage. Because it is self-leveling, you get uniform protection with minimum labor. A two-man crew can apply more than 10,000 square feet (929 m<sup>2</sup>) of Guardian Seamless Roof Coating in one eight hour day. Application is so simple even untrained maintenance staff can get professional results.

### DRIES IN MINUTES TO PERMIT UNINTERRUPTED WORK

And Guardian Seamless Roof Coating dries fast. It can support light foot traffic in as little as 30 minutes without tracking. That means other roofing work can continue without interruption. And that ultimately means fewer setups and lower job costs.

### ATTRACTIVE APPEARANCE

When used for complete roof coverage, good looks is another outstanding feature of Guardian Seamless Roof Coating. The unique self-leveling feature causes the coating to immediately flow to provide a uniform, absolutely seamless membrane. After application of a SWEPCO Reflective Coating, Guardian Seamless Roof Coating yields a beautiful, seamless roof that reduces energy costs for years.

### SAFER & MORE ENVIRONMENTALLY FRIENDLY

Because it doesn't require heating or the use of torches, a Guardian roof job is a safer job. And low VOC ratings, mean a Guardian roof project won't pollute the environment the way other products will.

## GENERAL DATA:

### TYPICAL PHYSICAL PROPERTIES

Viscosity, Stormer, @77°F (25°C), KU (ASTM D-562)	105
Specific Gravity, @60°F (15.5°C) (ASTM D-70)	0.96
Unit Weight, lb/gal, 60°F (15.5°C) (ASTM D-70)	8.0
Unit Weight, kg/liter, 60°F (15.5°C) (ASTM D-70)	0.96
Drying Time, to Touch, hours	1
Drying Time, Through, hours	24
Flash Point, PM, 9F (°C) (ASTM D-93)	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
Dry Film Thickness, 1 gal/100 ft <sup>2</sup> , mil (Calculation)	13.8
Dry Film Thickness, 1 liter/m <sup>2</sup> , mm (Calculation)	0.863
Color	Black
Odor	Ester

### TYPICAL PERFORMANCE PROPERTIES

Elongation, % (ASTM D-412)	340
Cold Flex, 1 in. mandrel, @ minus 40°F (minus 40°C)	No Cracking
Tensile Strength, Unreinforced, PSI (ASTM D-412)	1032
Tensile Strength, Unreinforced, N/mm <sup>2</sup> (ASTM D-412)	7.13
Tensile Strength, Reinforced w/HD PolyMaster, PSI (ASTM D-412)	2650
Tensile Strength, Reinforced w/HD PolyMaster, N/mm <sup>2</sup> (ASTM D-412)	18.31
Water Absorption, % Wt Gain (ASTM D-471)	0.29
Moisture Vapor Transmission, Perm (ASTM E-96)	0.02
Hardness, Shore A (ASTM D-2240)	55
Adhesion to Primed EPDM, PVC, TPO, SPUF, CSPF, PIB, CPE	Excellent
Storage Stability	1 Year

### TYPICAL CHEMICAL PROPERTIES

Non Volatile, % wt (ASTM D-4479, 8.2)	85
Volatile, % wt (ASTM D-4479, 8.2)	15
Resistance to Mild Acids and Alkali	Excellent
Resistance to Water	Excellent
Resistance to Petroleum Solvents	Poor

## APPLICATION INFORMATION:

**IMPORTANT:** Guardian Seamless Roof Coating is a two-part, black, semi-mastic elastomeric roof coating, designed to waterproof, protect and preserve both new and properly prepared old roofs. It is designed for asphalt based roofs and for use on EPDM (Rubber), PVC (Plastic), TPO (Thermoplastic Olefin), SPUF (Sprayed-in-place Polyurethane Foam), CSPF (Hypalon®), PIB Polyisobutylene) & CPF (Chlorinated Polyethylene) roofs. It is not designed for use on nor should it be applied directly to coal tar pitch, wood, slate, glazed tile or any other brittle surface. Nor should it be applied directly to insulation, bare concrete decks, uncoated organic felts, corrugated asbestos cement or asphalt composition shingles. If this product is being used as part of a warranted SWEFCO Roof System, consult the system installation literature for additional instructions before use.

**PREPARATION:** Because Guardian Seamless Roof Coating has a "pot life" of only about 30 minutes after mixing,

it is important that all preparation be done BEFORE mixing the product. Areas to be coated must drain water freely. No area should be exposed to continually leaking equipment. The roof surface should be sound, clean and dry. The surface must be thoroughly cleaned free of all loose granules, dust, dirt, debris or other contaminants which could inhibit proper bonding. After cleaning, the area to be coated must be primed with Guardian General Purpose Primer before application of Guardian Seamless Roof Coating.

**MIXING:** THOROUGH & PROPER MIXING IS ABSOLUTELY ESSENTIAL TO LONG TERM PERFORMANCE OF THIS PRODUCT. If the product is not mixed properly, it will NOT work properly. Optimum mixing temperature is 70 - 80°F (21 - 26°C). APPLICATION SHOULD BE COMPLETED WITHIN 30 MINUTES AFTER THE INGREDIENTS ARE MIXED. Using a 1/2-inch (1.25 cm) 400-600 rpm drill with double bladed paddle mixing attachment, mix the half gallon (2 liter) container of activator into the 5 gallon