

PRODUCT DATA BULLETIN II

HEAVY DUTY GRAVEL ROOF PRESERVATIVE

DESCRIPTION AND PURPOSE:

Heavy Duty Gravel Roof Preservative is a premium quality cold process coating designed especially for the maintenance of weathered gravel roofs. It is a specialized blend of low viscosity, slow curing waterproofing resins.

OUTSTANDING FEATURES:

ESPECIALLY DESIGNED FOR MAINTENANCE OF GRAVEL ROOFS

Because Heavy Duty Gravel Roof Preservative has been especially designed for use only on gravel surfaced asphalt, it provides more protection for these types of roofs than any other type of product.

HELPS STOP DETERIORATION

The moment it is applied, Heavy Duty Gravel Roof Preservative helps stop deterioration of weathered asphalt waterproofing membranes. It instantly seals cracks and protects the vulnerable waterproofing membrane with a thick flood coat of preservative waterproofing materials.

HELPS REJUVENATE EXISTING SURFACES

Heavy Duty Gravel Roof Preservative can actually help reverse some of the effects of aging. The thick flood coating of Heavy Duty Gravel Roof Preservative slowly helps rejuvenate the age hardened existing surface. A special blend of soft, slow curing waterproofing materials slowly helps restore some of the original softness and flexibility of the

original flood coating. Any exposed reinforcing felts are saturated, sealing and protecting them from further damage.

NEW SURFACE IS SELF HEALING

Heavy Duty Gravel Roof Preservative provides continuing protection from the elements because it is "self healing". If cracks should develop, a little warm weather causes the flood coating to "heal" itself.

EASY APPLICATION REDUCES LABOR COST

Because application of Heavy Duty Gravel Roof Preservative is not labor intensive, more of the roofing dollar goes for high quality waterproofing materials. Ease of application significantly reduces installation labor and is one of the primary reasons for the economies of maintaining roofs with Heavy Duty Gravel Roof Preservative.



GENERAL DATA:

TYPICAL PHYSICAL PROPERTIES

Viscosity, Stormer, @77°F (25°C) 1100 grams, seconds (ASTM D-562)	35-60
Specific Gravity, @60°F (15.5°C) (ASTM D-70)	0.97
Unit Wgt, lb/gal, @60°F (15.5°C) (ASTM D-70)	8.09
Unit Wgt, kg/liter, @60°F (15.5°C) (ASTM D-70)	0.97
Drying time, to touch, hrs (Physical)	12
Drying time, through, weeks (Physical)	1
Flash Point, T.O.C., °F (°C) (ASTM D-3143)	125(37)
Wet Film Thickness, 1 gal/100 ft ² , mil (Calculation)	16
Wet Film Thickness, 1 liter/m ² , mm (Calculation)	1
Dry Film Thickness, 1 gal/100 ft ² , mil (Calculation)	11
Dry Film Thickness, 1 liter/m ² , mm (Calculation)	0.67
Color (Visual)	Black
Odor (Physical)	Petroleum

TYPICAL PERFORMANCE PROPERTIES

Workability	Permits application by squeegee, brush, roller or spray
Adhesion to Dry Surfaces	Excellent
Pliability, @32°F (0°C) (SS-C-540B)	No cracking or separation
Accelerated Aging (SS-C-540B)	No cracking or loss of adhesion
Penetration & Saturation	
95% Saturation (SS-C-540B)	3
2 in. diameter (SS-C-540B)	10
Some penetration (SS-C-540B)	12
Storage Stability	Indefinite*

*Some increase in viscosity may be experienced.

TYPICAL CHEMICAL PROPERTIES

Non-Volatile, % weight (Evaporation)	67
Volatile, % weight (Evaporation)	33
Asphalt portion soluble in CS ₂ , % weight (ASTM D.4)	99.9
Water content, % weight (ASTM D.95)	Nil
Mineral Stabilizers, % weight (Ash)	9
Asphalt Resins, % weight (SWEPCO)	63
Resistance to mild acids and alkali (SWEPCO)	Excellent
Resistance to water (SWEPCO)	Excellent
Resistance to petroleum solvents (SWEPCO)	Poor

APPLICATION INFORMATION:

IMPORTANT: Heavy Duty Gravel Roof Preservative is a premium quality roof maintenance product, designed to restore vital waterproofing oils to dry, brittle gravel or other aggregate covered asphalt roof surfaces in conjunction with the Heavy Duty Gravel Roof System 103. This product is designed for use on gravel or other aggregate covered asphalt roofs only. It is NOT designed for use on smooth surface roofs.

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 $\frac{1}{4}$ in. per foot (2%) and maximum slope of $\frac{1}{2}$ in. per foot (4%) 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. No area should be exposed to continually leaking equipment. Loose gravel or other aggregate must be temporarily removed. The surface must then be thoroughly cleaned free of all dust, dirt and loose debris.

All blisters, cracks, open seams and other surface irregularities should be repaired with Heavy Duty Patching Compound and Patching Fabric. Loose, deteriorated or leaking edge, wall or protrusion flashings should be repaired with Heavy Duty Patching Compound and Patching Fabric. (For detailed information, see instruction labels for Heavy Duty Patching Compound and Patching Fabric and the Application Guide for the Heavy Duty Gravel Roof System 103.)

APPLICATION: Heavy Duty Gravel Roof Preservative is applied straight from the container with standard roofing brushes or airless spray equipment at the minimum coverage rate recommended below. It requires no heating or thinning. (For specific information concerning spray application, contact Southwestern Petroleum Corporation.) Aggregate should be uniformly embedded immediately after application or within 30 minutes following application. The old aggregate may be reused if clean. New aggregate should be added if necessary to insure uniform and complete coverage.

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

MINIMUM COVERAGE RATES:

Gravel or Other Aggregate Covered Asphalt -- 7.0 gal. per 100 sq. ft. (2.89 liter/m²)

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: Under normal circumstances, Heavy Duty Gravel Roof Preservative sets up in 3 to 8 days; it will remain relatively soft throughout its service life.

CLEAN-UP: Heavy Duty Gravel Roof Preservative can be removed from tools and other areas with kerosene or mineral spirits.

STORAGE: Heavy Duty Gravel Roof Preservative has an indefinite shelf life provided containers are kept tightly sealed.

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.

APPLICATION INFORMATION

(Continued)

SAFETY PRECAUTIONS:

HARMFUL OR FATAL IF SWALLOWED - IRRITANT - COMBUSTIBLE

Contains: Naphtha & Other Petroleum Distillates

Avoid contact with eyes. Avoid contact with skin. Wear protective goggles, gloves and clothing. Avoid breathing of vapors. Use with adequate ventilation or approved respirators in confined areas. Use approved respirators during spray application and keep respirators clean and functioning properly. 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. In extreme cases of chronic exposure to coal tar, there may be some cancer risk. Ingestion can cause symptoms similar to inhalation; aspiration into lungs can cause serious injury or death.

FIRST AID PROCEDURES:

Eye Contact - Flush with water 15 minutes. If pain or redness persists, seek medical attention immediately. Skin Contact - Wash with soap and water after 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 CO₂ 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 Material Safety Data Sheet (MSDS) for this product or call Southwestern Petroleum Corporation at (817) 332-2336 for further health and safety information.

