

# PRODUCT DATA BULLETIN II

## HEAVY DUTY PRIMER

### DESCRIPTION AND PURPOSE:

Heavy Duty Primer is a low viscosity primer especially formulated to prepare dry, weathered asphalt roofs for recoating and concrete decks for new roofing. It is manufactured from SWEPCO's "Heart of Texas" Asphalt®, select oils and solvents and a special chemical additive, Zonamine™. It is used with other SWEPCO Roofing Products in a number of applications for both roof maintenance and new roofing. Consult the appropriate application literature for more information.

### OUTSTANDING FEATURES:

#### HELPS RECONDITION DRY, WEATHERED ASPHALT SURFACES

Priming with Heavy Duty Primer reconditions old asphalt surfaces and helps insure maximum performance from final surface coatings. Heavy Duty Primer helps prevent surface coatings from being absorbed by dried out existing surfaces, seals smaller hairline cracks and pinhole blisters, penetrates surface dust and dirt and allows new coatings to form a stronger and more durable bond. It also helps prevent further deterioration of the old surface, which is one of the most common causes of failure of conventional recoating techniques. The net result is a stronger waterproofing membrane.

#### SUPERIOR INGREDIENTS INSURE SUPERIOR PERFORMANCE

Heavy Duty Primer's outstanding performance is the direct result of quality ingredients and

meticulous processing. SWEPCO's own "Heart of Texas" Asphalt® is the most important ingredient, a premium quality waterproofing asphalt especially selected and refined to retain more of the natural plasticizing oils needed for proper renewal of the old surface. This superior asphalt is then fortified with a highly effective SWEPCO chemical additive, Zonamine™. Zonamine™ breaks down the surface tension which causes poor penetration and bonding in many primers and permits the more complete, more uniform penetration and bonding necessary for long membrane life.

#### SOLVES DUST & SCALE PROBLEMS ON CONCRETE DECKS

New concrete roof decks or concrete decks which are to be re-roofed present special roofing problems because they have a tendency to produce dust and scale. Heavy Duty Primer penetrates porous concrete decks, absorbing dust and scale and sealing pores to prevent the formation of additional dust and scale.

#### EASY TO APPLY

Heavy Duty Primer is applied straight from the container with brush, roller, squeegee or airless spray equipment. It requires no heating, thinning or mixing and eliminates the fire hazards associated with these steps. And because of its low viscosity, cold weather poses no application problems.



## 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, min .....	105 (40.5)
Wet Film Thickness, 1 gal/100 ft <sup>2</sup> , mil .....	16
Wet Film Thickness, 1 liter/m <sup>2</sup> , mm .....	1.0
Dry Film Thickness, 1 gal/100 ft <sup>2</sup> , mil .....	6.4
Dry Film Thickness, 1 liter/m <sup>2</sup> , mm .....	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 .....	Indefinite (Begins thickening after one year)

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

## TYPICAL CHEMICAL PROPERTIES

Non Volatiles, % wt, ASTM D-402 .....	40
Volatiles, % wt, ASTM D-402 .....	60
Asphalt Portion Soluble in CS, 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 Specifications SS-A-701B  
Canadian Government Specification Board Standard 37-GP-9M

## APPLICATION INFORMATION:

**IMPORTANT:** Heavy Duty Primer is a premium quality roofing primer, designed to restore vital waterproofing oils to dry, brittle asphalt roof surfaces and asphalt roof surfaces with hairline cracks only skin deep. It also is used as a primer for some concrete roof decks prior to installation of new roofing. It is not designed for use on, nor should it be applied directly to coal tar pitch roofs, wood surfaces, slate or glazed tiles. Nor should it be applied directly to insulation, granular surfaced roll roofing or asphalt composition shingles. If this product is being used as part of a warranted SWEPCO Roof System, consult the system installation literature for additional instructions before use.

**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 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. No area should be exposed to continually leaking equipment. Loose gravel, granules or other aggregate must be swept or scraped off the roof. The surface must then be thoroughly cleaned free of all dust, dirt and loose debris. All blisters, cracks, split 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 appropriate SWEPCO Roof System installation brochure.)

**APPLICATION:** Heavy Duty Primer is applied straight from the container with standard roofing brushes, squeegees, rollers or airless spray equipment at the minimum coverage rates 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. Do not apply to new concrete decks until they have fully cured.

### MINIMUM COVERAGE RATES:

Concrete -- 0.50-1.00 gal. per 100 sq. ft. (.20-.41 liter/m<sup>2</sup>)

Priming Before Installation of Heavy Duty PolyMaster -- 0.75 gal. per 100 sq. ft. (.31 liter/m<sup>2</sup>)

Smooth Surface Asphalt -- 1.50 gal. per 100 sq. ft. (.61 liter/m<sup>2</sup>)

Granule or Other Fine Aggregate Covered Asphalt -- 2.00 gal. per 100 sq. ft. (.82 liter/m<sup>2</sup>)

Gravel or Other Coarse Aggregate Covered Asphalt -- 3.00 gal. per 100 sq. ft. (1.22 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 and will negate any guarantee to which the products may be subject.

**CURING:** Heavy Duty Primer must be dry to touch before Heavy Duty Roof Coating can be applied. If the primed surface will support foot traffic without tracking, it has sufficiently cured. Under normal circumstances, sufficient curing will occur within 12 hours or less. Curing is more critical when SWEPCO Aluminum Roof Coating is used as the final coating. In such cases, Heavy Duty Primer must cure a minimum of 30 to 60 days in warm weather or 60 to 90 days in colder weather. Premature application can cause discoloration of the aluminum surface.

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

**STORAGE:** Heavy Duty Primer 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 3, B-2390 Oostmalle, Belgium.

## APPLICATION INFORMATION

(Continued)

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



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