

# PRODUCT DATA BULLETIN II

## HEAVY DUTY ASPHALT PAVING SEALER

### DESCRIPTION AND PURPOSE:

Heavy Duty Asphalt Paving Sealer is a premium quality, protective sealer designed to prolong the life of asphalt pavement and reduce overall maintenance costs. It is manufactured from SWEPCO TRI-MASTIC 49 Asphalt, SWEPCO's highly effective bonding agent, Zonamine, and select water-proofing oils. It is ideal for providing dependable protection of parking lots, driveways, ramps, loading docks, paved warehouse floors, bicycle paths, walkways and many other paved asphalt surfaces.

### OUTSTANDING FEATURES:

#### PROLONGS THE LIFE OF NEW & OLD ASPHALT PAVING

Heavy Duty Asphalt Paving Sealer forms a tough, durable asphalt coating which seals hairline cracks and helps prevent water and ice damage. As it seals out water, it seals in the natural oils which keep the pavement strong and resilient. By sealing in these essential oils and retarding oxidation, Heavy Duty Asphalt Paving Sealer helps prevent pavement cracks and deterioration and prolongs the life of both new and old paved areas.

#### LASTS LONGER

Resistance to wear is one of the most important characteristics of a superior asphalt paving sealer and no other sealer excels Heavy Duty Asphalt Paving Sealer in this area. One of the reasons for SWEPCO's outstanding resistance to wear is the use of

SWEPCO TRI-MASTIC 49 Asphalt, a truly outstanding asphalt that better resists the damaging effects of both traffic and exposure to weather.

Another reason for Heavy Duty Asphalt Paving Sealer's long service life is its superior bondability. A highly effective special bonding agent, Zonamine, helps the sealer form a tight, uniform bond with the existing surface. And that means it better resists the chipping, blistering and peeling encountered with cheap paving sealers and paints.

#### CUTS OVERALL MAINTENANCE COSTS

Because Heavy Duty Asphalt Paving Sealer retards oxidation of the asphalt and helps prevent seepage of water into the subsurface, it greatly slows down overall deterioration of the asphalt paving. The need for patching and other maintenance is held to a minimum, substantially lowering maintenance costs. And because it provides a smooth, seamless new surface that's easier to keep clean, it also lowers labor costs for routine cleaning.

#### EASY, INEXPENSIVE TO APPLY

Heavy Duty Asphalt Paving Sealer also saves money on application labor because application is easy, fast and simple. Heavy Duty Asphalt Paving Sealer is applied just as it comes from the container. No special preparation of the products. No dangerous heating. No special equipment of any kind. Just pour it on and brush it smooth. And for those larger jobs, it's completely adaptable to spray or spreader box application techniques.



## GENERAL DATA:

## TYPICAL PHYSICAL PROPERTIES

Viscosity, @122°F (50°C), SFS (ASTM-D-88) .....	45
Specific Gravity, @60°F (15.5°C) (ASTM D-3142) .....	0.91
Unit Weight, lb/gal .....	07.55
Unit Weight, kg/liter .....	0.91
Drying Time, to Touch, hours .....	1
Drying Time, Through, hours .....	4
Flash Point, T.O.C., °F, min (ASTM D-1343) .....	105
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) .....	8
Dry Film Thickness, 1 liter/m <sup>2</sup> , mm (Calculation) .....	4
Color .....	Black
Odor .....	Petroleum Naptha

## TYPICAL PERFORMANCE PROPERTIES

Workability .....	Easy spray, brush, squeegee
Behavior, @140°F (60°C) (ASTM D-2822, 8.5) .....	No blistering, sagging or running
Pliability, @32°F (0°C) (ASTM D-2822, 8.6) .....	No cracking or separation
Adhesion to Dry Surfaces (Rock Method) .....	Excellent
Accelerated Weathering, hours .....	1,000*
Film Appearance .....	Good
Peeling and Chipping .....	None
Erosion .....	Slight
Water Penetration .....	Slight
Chalking .....	Slight
Storage Stability .....	Indefinite Shelf Life

## TYPICAL CHEMICAL PROPERTIES

Non Volatile, % wt (ASTM D-402) .....	55
Volatile, % wt (ASTM D-402) .....	45
Asphalt Portion Soluble in CS <sub>2</sub> , % wt (ASTM D-4) .....	99.9
Resistance to Mild Acids and Alkali .....	Good
Resistance to Water .....	Excellent
Resistance to Petroleum Naptha .....	Poor
Water Content (ASTM D-95) .....	NIL

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

## APPLICATION INFORMATION:

**IMPORTANT:** Heavy Duty Asphalt Paving Sealer is a smooth, black asphalt sealer designed to help protect both old and new asphalt pavement from weather, moisture, age hardening and the wearing effects of traffic. It can provide effective protection only when the paved area is basically sound. An area which is cracked as a result of a sinking or defective base or one which is severely damaged by solvents or weather will not be helped by surface protection measures only. Defects in such areas must be corrected before application of Heavy Duty Asphalt Paving Sealer.

**PREPARATION:** The surface must be dry and free of sand, dust and loose particles. Remove all grease and oil deposits by thoroughly washing these areas with an all purpose cleaner, such as SWEPCO Zonex-K Industrial Cleaner. After cleaning, flush the areas with water and allow to dry thoroughly. Heavy grease and oil deposits can be removed by lightly burning the area with a small blow torch and scraping loosened deposits from the surface. Small cracks (less than ¼ inch or 6 mm wide or deep) should be sealed with SWEPCO Crack Filler, allowing them to cure for 72 hours before sealing work continues. (See instructions for SWEPCO Crack Filler.) Cracks up to ½ inch or 12mm wide or deep can be sealed with SWEPCO Pourable Crack Filler. (See instructions for SWEPCO Pourable Crack Filler.) Larger cracks, chuck holes and areas of loose pavement should be repaired with an aggregate pavement filler, such as SWEPCO Chuck Hole Filler before proceeding with application. (See instructions for SWEPCO Chuck Hole Filler. Not available outside U.S. and Canada.)

**APPLICATION:** Heavy Duty Asphalt Paving Sealer is applied straight from the container with standard roofing type brushes, rollers or airless spray equipment at the minimum coverage rates recommended below. It requires no heating, thinning or mixing. Application should begin at the highest elevation of the area to be coated. The material should be “scrubbed in” with a brush to avoid thick applications or puddled areas. A deep nap roller can be used to remove excess material from depressions in the surface. When additional sealer is poured, overlap the new material onto the “wet edge” of the material just applied to prevent lap marks and insure uniform coverage. Squeegees are very effective for initial spreading of the material, but squeegee

application should be followed immediately by brushing with a soft-bristled brush to remove excess material from depressions in the surface. Failure to remove these “puddles” can cause tracking problems. **REMEMBER** -This material is a sealer, not a coating. A thick coating is harmful to the performance of the product. (For specific recommendations concerning spray application, contact Southwestern Petroleum Corporation.)

**APPLICATION PRECAUTIONS:** Do not apply to a wet surface. Do not apply over new asphalt until it has cured for at least 60 days. Avoid over application. Over application slows down the curing process and contributes to “tracking”

### MINIMUM COVERAGE RATES:

Smooth, Dense Surface .....	1.0 gal. per 100 sq. ft. (0.41 liter/m <sup>2</sup> )
Medium Surface .....	1.5 gal. per 100 sq. ft. (0.61 liter/m <sup>2</sup> )
Rough, Porous Surface .....	2.0 gal. per 100 sq. ft. (0.82 liter/m <sup>2</sup> )

**NOTE:** These coverage rates are minimum coverage rates. 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:** Proper curing time is necessary to avoid problems of “tracking”. Curing is influenced by a variety of factors, such as coverage rate, air and ground temperature, humidity and weather conditions immediately preceding and following application. Normal curing time is one to four hours. Actual conditions at the time of application must always take precedence over these or any other suggested curing times.

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

**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 Naptha & ther Petroleum Distillates

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 at (817) 332-2336 for further health and safety information.

