

PRODUCT DATA BULLETIN II

EPOXY RESURFACER

DESCRIPTION AND PURPOSE:

SWEPCO Epoxy Resurfacer is a gray, synthetic mortar with two separate components. The mortar portion is composed of epoxy resin, troweling improvement additives, selected silica aggregate and two coloring pigments; the liquid portion is a co-reactant or chemical activator which causes the epoxy to harden. Once cured, it has greater compressive, flexural and adhesive strength than concrete itself. In addition, it has superior chemical, thermal and abrasion resistance. These characteristics make it especially well suited for patching and complete resurfacing of old or new concrete, masonry and firm non-vibrating steel industrial, commercial and institutional floors. It is also ideal for sloping floors to improve drainage and for creating non-skid surfaces.

OUTSTANDING FEATURES:

STRONGER THAN CONCRETE ITSELF

Whether it's used for patching or complete resurfacing, the special epoxy resin used in SWEPCO Epoxy Resurfacer provides it with amazing resistance to cracking, spalling, chipping, loosening, dislodging and dusting. Almost any patching or resurfacing problem can be solved with SWEPCO Epoxy Resurfacer. And the tough, durable surface it creates means the problem won't return; maintenance costs and downtime caused by floor problems will be a thing of the past.

RESISTS ACIDS, HARSH CHEMICALS, HEAT AND SPARKING

A surface protected with SWEPCO Epoxy Resurfacer is protected from many petroleum solvents, harsh chemicals and even some acids (except acetic and formic acids). This broad range resistance to chemical attack makes SWEPCO Epoxy Resurfacer ideal for any surface that is subjected to solvent or chemical spillage. SWEPCO Epoxy Resurfacer also adds an element of safety to areas where flammable solvents or chemicals are stored or used because it provides a non-sparking surface. And the surface itself is heat resistant, withstanding constant exposure to temperatures up to 250°F (121°C).

CUTS MAINTENANCE COSTS

Ordinary flooring materials in industrial environments require periodic maintenance to keep them in shape . . . patching, repairing, painting, sealing, resurfacing. But not floors resurfaced with SWEPCO Epoxy Resurfacer. Superior strength, durability and chemical resistance insure long life. Once it's down, it's virtually maintenance free, so it cuts maintenance costs drastically. Reduced maintenance and long service life make SWEPCO Epoxy Resurfacer much more economical than other flooring materials. And when it's installed before the original flooring becomes unsound, it can prevent the cost of replacement from ever occurring.



REDUCES INSTALLATION
DOWNTIME AND PROBLEMS

Resurfacing with SWEPCO Epoxy Resurfacer eliminates many of the problems which accompany ordinary resurfacing. Because it normally doesn't require extensive preparation, removal of old slabs, erection of forms or large crews, installation is faster. Resurfacing with SWEPCO Epoxy Resurfacer simply requires a clean, dry, sound subsurface. It can be applied as thin as 1/8 inch (3.18 mm), so in many cases, it doesn't raise the floor level enough to interfere with existing doors, stairs, ramps, platforms or machinery. It takes foot traffic and moderate stationary loads in just 24 hours. And within one week it will take more punishment than ordinary concrete. Ease and speed of

installation means less downtime and lost production when resurfacing production areas with SWEPCO Epoxy Resurfacer.

QUICK, CONVENIENT AND
EASY TO USE

Anyone can get professional results with SWEPCO Epoxy Resurfacer by following the simple instructions which come with every container. If the surface is clean, dry and sound, it can be applied directly to it, eliminating expensive and time consuming surface preparations. SWEPCO Epoxy Resurfacer comes in kit form with both components carefully premeasured for ease of mixing. It can be troweled to create any surface texture from rough to glassy smooth.

GENERAL DATA:

TYPICAL PHYSICAL PROPERTIES

| | |
|---|------------|
| Specific Gravity, 60°F (15.5°C) | 1.83 |
| Unit Weight, lb/gal | 15.25 |
| Unit Weight, kg/liter | 1.83 |
| Color | Light Gray |
| Pot Life, hrs | 1 |
| Shelf Life, yrs | 1 |
| Curing Time, firm | 24 hrs |
| Wet Film Thickness, 1 gal/100 ft ² , mil | 16 |
| Wet Film Thickness, 1 liter/m ² , mm | 1 |
| Dry Film Thickness, 1 gal/100 ft ² , mil | 16 |
| Dry Film Thickness, 1 liter/m ² , mm | 1 |
| Flash Point, T.O.C., °F (°C) | 300 (149) |

TYPICAL PERFORMANCE PROPERTIES

| | |
|---|--|
| Compressive Strength, lbs/in ² | 8,352 |
| Compressive Strength, N/mm ² | 57.62 |
| Tensile Strength, lbs/in ² | 2,000 |
| Tensile Strength, N/mm ² | 13.80 |
| Flexural Strength, lbs/in ² | 3,699 |
| Flexural Strength, N/mm ² | 25.52 |
| Resistance to Acids (by immersion): | |
| 50% Nitric Acid | Not affected after 2 months |
| 50% Sulfuric Acid | Not affected after 2 months |
| 50% Hydrochloric Acid | Not affected after 2 months |
| 50% Citric Acid | Not affected after 2 months |
| 85% Phosphoric Acid | Not affected after 2 months |
| 10% Lactic Acid | Slight softening & discoloration after 35 days |
| 10% Acetic Acid | Slight softening & discoloration after 35 days |
| 10% Chromic acid | Heavy discoloration after 2 months |
| Resistance to Alkali (by immersion): | |
| 50% Sodium Hydroxide | Not affected after 2 months |
| 26% Ammonium Hydroxide | Not affected after 35 days |

| | |
|---|---|
| 5.25% Sodium Hypochlorite | Product damaged after 28 days |
| Resistance to Salt (by immersion): | |
| Calcium Chloride Solution | Not affected after 30 days |
| Sodium Chloride Solution | Not affected after 30 days |
| Resistance to Hydrocarbons (by immersion): | |
| Toluene | Not affected after 30 days |
| Xylene | Not affected after 30 days |
| Mineral Spirits | Not affected after 30 days |
| Jet Fuel | Not affected after 30 days |
| Gasoline | Not affected after 30 days |
| Kerosene | Not affected after 30 days |
| Fuel Oil #2 | Not affected after 30 days |
| Resistance to Alcohol (by immersion): | |
| Methanol | Will not withstand prolonged immersion* |
| Ethanol | Will not withstand prolonged immersion* |
| Isopropyl Alcohol | Will not withstand prolonged immersion* |
| Butyl Alcohol | Will not withstand prolonged immersion* |
| Resistance to Chlorinated Hydrocarbon (by immersion): | |
| Carbon Tetrachloride | Will not withstand prolonged immersion* |
| Trichloroethylene | Not Resistant |
| Perchloroethylene | Not affected after 5 months |
| Resistance to Ketones (by immersion): | |
| Acetone | Not affected after 5 months |
| Methyl Ethyl Ketone | Not resistant |
| Methylisobutyl Ketone | Will not withstand prolonged immersion* |

*NOTE: SWEPCO Epoxy Resurfacer will not withstand prolonged immersion in these chemicals. However, it will resist intermittent exposure to them provided spills are wiped up and the surface is flushed immediately.

APPLICATION INFORMATION:

IMPORTANT: SWEPCO Epoxy Resurfacer is a gray, synthetic mortar designed for patching and complete resurfacing of concrete, masonry and firm non-vibrating metal surfaces. Because it is prepared for use by mixing two components together and begins hardening approximately an hour after mixing, all preparation of the surface to be repaired must be completed before mixing the two components together.

PREPARATION: Clean surface thoroughly by washing with an industrial cleaner, such as SWEPCO Zonex-K Industrial Cleaner. Areas heavily contaminated with animal or vegetable fats should be cleaned with a 20% muriatic acid wash and rinsed clean. Moderate to heavy deposits of grease and grime should be removed by scraping, grinding, sandblasting or wire brushing. A rough surface provides a better bond. Sandblasting or chipping with a hammer removes weak mortar, as well as providing a suitable rough surface. The surface must be totally dry prior to application.

MIXING: THOROUGH MIXING IS ABSOLUTELY ESSENTIAL TO PERFORMANCE OF THIS PRODUCT, MECHANICAL MIXING IS HIGHLY RECOMMENDED, APPLICATION MUST BE COMMENCED WITHIN 15 MINUTES AFTER THE INGREDIENTS ARE MIXED. SWEPCO Epoxy Resurfacer is prepared for use by mixing the liquid content (hardener) thoroughly with the solid contents (mortar). The liquid hardener is in the five 1-pint

(0.47 liter) containers packed inside the large pail. Before blending the liquid hardener with the mortar, stir the mortar to assure a uniform mixture. For partial mixes of approximately one gallon (3.79 liters) each, mix the contents of one of the 1-pint (0.47 liter) containers of hardener with 14.50 pounds (6.58 kg) of mortar. (NOTE: The containers of hardener are not intended to be full. They contain the precise amount of hardener for correct mixing.)

APPLICATION: SWEPCO Epoxy Resurfacer should be applied immediately after mixing with a standard masonry trowel to allow easier handling and shaping of the surface. Trowel the material onto the surface and work as desired to a smooth finish. The trowel may be kept free of the mixture by wiping on a rag soaked with kerosene or mineral spirits.

APPLICATION PRECAUTIONS: Do not apply to wet or damp surfaces. When possible, application should be performed above 50°F (10°C).

COVERAGE RATES:

0.375 in. (9.53 mm) Thick 24 gals. per 100 sq. ft. (9.78 liter/m²)

0.25 in. (6.35 mm) Thick 16 gals. per 100 sq. ft. (6.52 liter/m²)

0.125 in. (3.18 mm) Thick 8 gals. per 100 sq. ft. (3.26 liter/m²)

APPLICATION INFORMATION

(Continued)

CURING: SWEPCO Epoxy Resurfacer begins hardening approximately one hour after mixing. Under normal conditions it will cure enough for foot traffic within 24 hours and is completely cured within seven days.

CLEAN-UP: SWEPCO Epoxy Resurfacer should be cleaned promptly from tools and other areas with kerosene or mineral spirits. Otherwise, it is extremely difficult to remove.

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., Industrieweg 6, B-2390 Oostmalle, Belgium.

SAFETY PRECAUTIONS

HARMFUL OR FATAL IF SWALLOWED - SENSITIZER

Contains: Epoxy Resin and Glycidyl Ether

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. 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, inflammation or dermatitis. Prolonged breathing of vapors can cause respiratory difficulty, dizziness, headache, silicosis, nausea or irritation of nose or throat. Ingestion can be harmful; 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. Inhalation - Remove to fresh air. If breathing difficulty persists, give oxygen or resuscitate and SEEK MEDICAL ATTENTION IMMEDIATELY. Ingestion - TREAT AS AN EMERGENCY. If mortar component has been ingested and patient is conscious, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. When vomiting occurs, keep head below hips to prevent aspiration. SEEK MEDICAL ATTENTION IMMEDIATELY. If activator component has been ingested and patient is conscious, do NOT induce vomiting. Give plenty of milk or water. Never give anything by mouth to an unconscious person. 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.

