

CHEMSOL WATERBORNE EPOXY PRIMER

Product Data Sheet



Description

Chemsol Waterborne Epoxy Porous Surface Primer (WBSP) is a two-component, low VOC, HAP-free, fast curing water-based epoxy primer coating. It has been engineered to provide excellent adhesion for Chemsol floor and deck products.

Chemsol WBSP is suitable for use on flooring, ramps, steps, and other areas where priming is recommended prior to application of Chemsol Non-Slip or other topcoats.

Chemsol WBSP is suitable for industrial, commercial, marine, and consumer environments. It is easy to apply and has very little odor which makes it ideal for use in odor-sensitive areas both indoor and outdoor. It is designed to adhere to a variety of porous surfaces including concrete, wood, tile (prepared to expose porosity of the tile) and other surfaces. Priming is recommended for best performance of Chemsol topcoats.

Chemsol WBSP has been formulated to meet the strict requirements of South Coast Air Quality Management District Rule 1113.

Uses

Designed for a one coat primer low-build (tight) application to porous substrates requiring priming before application of Chemsol topcoats. Suitable for both indoor and outdoor industrial, commercial, marine, and residential applications.

- Advantages**
- Low VOC; low odor
 - HAPS free
 - Water-based
 - High durability
 - High adhesion to concrete and wood

Data

Actual results may differ based upon variations in mixing methods, equipment, temperature, application methods, test methods and site, substrate and curing conditions.

Colors	Clear
Film Thickness	Average dft 3 mils applied at 7.5 mils wft at an average spread rate of ~213 ft ² /gallon (estimated)
Dry Time @ 70°F (21°C) and 50% R.H.	Dry to recoat: about 6 hours Recoat window: max 7 days; recommended application of top coat as soon after 24 hours as possible Application not recommended below 50°F
Theoretical Coverage	~ 213 ft ² /gallon @ 3 mil dft (estimated)
Mix Ratio	Mix entire contents of Part A to Part B
Shelf Life	2 years from date of mfr.; store dry between 60°F and 90°F
Pot Life	~ 2 hours at 70°F
Flash Point	>200°F (93°C) Part A 89°F (32°C) Part B
Temperature Resistance	250°F / 121°C
Test Results:	
Solids (ASTM D2369)	40% +/- 2% by volume
VOC (EPA Method 24)	0.83 lbs/gallon (100 grams/liter)
Adhesion	ASTM D3359 5A (wood, concrete)
HAP Content	ASTM D3272 Zero ASTM E260



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Product Application	Read First:	Chemsol WBSP is a high technology epoxy coating that is suitable for commercial and industrial use. Thus, installation by professional epoxy installers is recommended. As with most high performance coating systems, the performance, durability, and overall efficacy of this product depends highly on correct surface preparation as well as on correct product application procedures. If surface preparation and/or application procedures are not followed, the product warranty will be voided. It is critical for proper product performance that surface preparation and application procedures are followed.
Atmospherics and General Notes		<ul style="list-style-type: none">• 24 hours prior to installation, store material between 70°F to 75°F (21°C to 24°C) for best results• Substrate and ambient temperatures should be between 70°F to 90°F (21°C to 32°C) for best results• For best results humidity should be between 50% and 70% R.H.• Moisture content should not exceed 3% for concrete substrates and 15% for wood substrates• Allow for proper joints in substrates and do not overcoat joints• Do not thin the coating• After surface preparation and prior to applying primer, use masking tape to tape off any areas that are not to be coated. Note: pay special attention to joints, bolt holes, areas of contact or abrasion, or hinges: tape off any area that does not require coating. Important: prior to material drying, remove tape.
Surface Preparation	Concrete	Completely remove oil, grease, dirt, and all other surface contaminants using a commercial grade cleaner/degreaser. Flush the area with water to remove any residue and allow to dry completely. Remove any paint, coating, contaminant, laitance, or loose concrete by scarification or blasting, or other mechanical means per NACE No. 6 / SSPC-SP 13 (Surface Preparation of Concrete). Smooth or glazed concrete surfaces should be roughened to improve adhesion. New concrete should be cured for at least 30 days prior to application. All release agents, hardeners, or sealers must also be removed. The concrete surface must be clean, dry, and abraded.
	Metal	Completely remove oil, grease, dirt, and all other surface contaminants using a commercial grade cleaner/degreaser. Prepare the metal surface in accordance with NACE No. 2 / SSPC-SP 10 (Near-White Blast Cleaning). We recommend SSPC-SP 10 standard over any type of power tool or mechanical cleaning or abrading. Galvanized (HDG) steel should be prepared in accordance with ASTM D6386. Contact Chemsol Technical Representative prior to preparing for installation on aluminum, galvanized, or specialty metals. Note: Chemsol Metal Primer is recommended for use on metals (instead of Chemsol WBSP).
	Wood	Completely remove oil, grease, dirt, and all other surface contaminants using a commercial grade cleaner/degreaser. Flush the area with water to remove any residues and allow to dry. Sand the surface to remove loose material and to create a surface profile for application. Ensure that surface is clean and free from saw dust and other contaminants. Wood must be dry.
	Fiberglass PVC FRP Tile	Completely remove oil, grease, dirt, and all other surface contaminants using a commercial grade cleaner/degreaser. Flush the area with water to remove any residues and allow to dry. Sand/abrade the surface to remove loose material and to create a surface profile for application. Ensure that the surface is clean and free from contaminants. Note: use Chemsol Metal Primer for fiberglass, PVC, and FRP.
	Other	Contact Chemsol Technical Representative prior to preparation or installation.
Mixing		Do not mix more material than can be applied within the pot life. Premix Part A separately. Always use the following mixing procedures.

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Mixing (cont.)

Use a mechanical paint mixer, preferably a metal mixing blade attached to a hand-held drill. Do not use a paint shaker to mix the product.

Open Part A and premix Part A with the mechanical mixer. Use a moderate motor speed and avoid introducing air into Part A. Move the mix blade throughout the entire container – up and down, side to side, touching all side walls and bottom of the container, and throughout the middle of the container. Mix until a uniform consistency is achieved. This should normally take about 1 to 2 minutes.

Empty the entire contents of Part B into Part A. A paint spatula or other tool should be used to ensure that all of Part B is emptied out of the container and into Part A. Always mix the entire contents of Part B with the entire contents of Part A.

Mix the combined parts A and B with the same diligence as when premixing. Correct product performance depends on achieving a thorough mix. If the product is not mixed thoroughly, then the product may not cure properly. Use a moderate drill speed and avoid introducing air into the product. Move the mix blade throughout the entire container – up and down, side to side, touching all side walls and bottom of the container, and throughout the middle of the container. Mix until a uniform consistency is achieved. This should normally take about 3 to 5 minutes.

Application

Apply at a spread rate of approximately 7.5 mils wft to achieve 3 mils dft (approximately 213 ft²/gallon).

Apply with brush, roller, and/or squeegee. WBSP can also be applied via airless or conventional spray equipment.

General Limitations

Substrate Moisture Content: Moisture content of concrete substrate should not exceed 3%. For wood substrates, moisture content should not exceed 15%.

Product Temperature: Optimum performance is achieved by preconditioning Chemsol WBSP for at least 24 hours between 70°F to 75°F (21°C to 24°C). Max temperature resistance once cured is 250°F.

Ambient Temperature: Minimum 50°F (10°C); Maximum 85°F (30°C). We recommend application at temperatures at or above 70°F.

Substrate Temperature: Minimum 50°F (10°C); Maximum 85°F (30°C); substrate temperature must be at least 5°F (3°C) above dew point.

Relative Humidity: Maximum 85% for application and curing. High humidity will prolong curing.

Thinning: Thinning is not recommended and will void warranty.

Chemsol WBSP is intended for application by experienced professional installers only.

Avoid freezing.

Chemsol warrants that its products meet its internal specifications and are of merchantable quality. However, the purchaser is solely responsible for the suitability of the product for any particular application. The purchaser should thoroughly test or qualify the product for serviceability, environmental compliance, and health and safety factors prior to use. Further, our total liability is limited to the price of the product or replacement in kind.