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CHEM-SENTRY® II

*Aliphatic Polyester
 Polyurethane Topcoat*

DESCRIPTION

Chem-Sentry® II is a two component, aliphatic polyester polyurethane for use in moderate to severe chemical environments in indoor or outdoor applications.

FEATURES

- ❖ Color and Gloss Retention
- ❖ Impact Resistant
- ❖ Chemical Resistance
- ❖ Meets California VOC and AQMD Requirements, , excluding SCAQMD areas

TYPICAL USES

- ❖ Concrete
- ❖ Plywood
- ❖ Pedestrian Traffic
- ❖ Vehicular Traffic
- ❖ Power Generating Plants
- ❖ Storage Tanks
- ❖ Food Processing Facilities
- ❖ Petrochemical Plants
- ❖ Steel Structures & Bridges
- ❖ Aircraft Hangars
- ❖ Milling and Mining Industry
- ❖ Manufacturing Plants
- ❖ Pulp and Paper Industry
- ❖ Warehouse Floors

COLOR

Medium Grey, Tan or Clear with a High Gloss finish.

Custom colors are available. Contact PSI for more information.

PACKAGING

1 gallon kit (3.78 liter): One 1 gallon, net fill 0.44 gallons (1.66 liters) can containing Part-A and one 1 gallon can, net fill 0.56 gallons (2.12 liters) containing Part-B.

5 gallon kit (19 liter): One 5 gallon pail, net fill 2 gallons (8 liters) of Part-A and one 5 gallon pail, net fill 3 gallons (11 liters) of Part-B.

MIXING

Chem-Sentry® II may not be diluted with solvent under any circumstance. Chem-

TECHNICAL DATA, CHEM-SENTRY® II (For Use Outside of California)

Coverage Rate, per 100 sq. ft.	0.5 gal 0.20 l/m ²
Dry Film Thickness, Per coat @ ½ gal. per ft ²	5 ± 2 mils 127 ± 50 microns
Pot Life at 75°F (24°C)	60-75 minutes
Flash Point	91°F 32.7°C
Total Solids by Volume, ASTM D-2697	63%
Volatile Organic Compounds, ASTM D-2369-81	2.8 lbs/gal. 337 gm/liter

TECHNICAL DATA, CHEM-SENTRY® II (CAL) (For Use Outside of SCAQMD Areas)

Coverage Rate, per 100 sq. ft.	0.5 gal 0.20 l/m ²
Dry Film Thickness, Per coat @ ½ gal. per ft ²	5 ± 2 mils 127 ± 50 microns
Pot Life at 75°F (24°C)	60-75 minutes
Flash Point	91°F 32.7°C
Total Solids by Volume, ASTM D-2697	69%
Volatile Organic Compounds, ASTM D-2369-81	2.08 lbs/gal. 250 gm/liter

CHEMICAL RESISTANCE (ASTM D-814)

<u>Excellent</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>
Distilled Water	Unleaded	Hexanol	IPA, 99%
Skydrol	Gasoline	Acetone	Butanol
Skydrol Jet Fuel		MEK	
Hydraulic oil		MIBK	
Motor Oil		Butyl Acetate	
		Toluene	
		Xylene	

Sentry® II Part-A and Part-B should be mixed individually before combining. Add Part-B to Part-A while mixing, using a mechanical mixer (Jiffy Mixer) at medium speeds. Mix until a homogeneous mixture and color is obtained (at least 5 minutes) and mix frequently during application to maintain uniform color. Use care to scrape the sides of the container to ensure that no unmixed material remains.

SURFACE PREPARATION

See PSI General Guidelines for additional surface preparation information.

All surfaces must be free of oil, grease, dirt and other contaminants.

Existing Coatings: A test area should be completed before topcoating.

Concrete: Pressure wash (2-3000 psi)

with clean fresh water in conjunction with biodegradable cleanser if necessary to remove all contaminants. Surface shall be dry and free of all oils, wax or any loose sealers or coatings.

Surface temperature should be between 60-100°F (15.5-37.7°C). Do not apply product unless temperature is at least 5° above the dewpoint. Re-coat schedule is 8-48 hours depending on the environment.

APPLICATION

Check area of application to ensure that it conforms to the substrate requirements as stated in the general guideline section. Prime interior and exterior floors and slabs.

Apply Chem-Sentry® II to the substrate at a rate of 2 gallon/100 sq. ft. (1.9 liters/m²). Additional coats may be necessary to achieve desired results.

Chem-Sentry® II is a high-performance coating and may become slippery when wet.

Airless Sprayer: Use Graco 28:1 pump or higher, Binks "Airless" spray gun with Reversa-Clean 0.017-0.019 spray tips and 3/8" solvent resistant fluid line. Adjust pump pressure to the lowest possible setting that provides proper atomization. Equipment of equal performance is acceptable.

Conventional Spray: Variations of conventional production spray equipment such as pressure pot, air assisted airless or high volume, low pressure systems as supplied by Binks, Graco, Nordson, Devilbiss or equal may be used.

Brush: Use solvent resistant mohair or natural bristle brush with feather edge.

Roller: Use solvent resistant phenolic core, short nap sheepskin or equal natural roller covers.

EQUIPMENT CLEANUP

Equipment should be cleaned environmentally safe solvent, as permitted under local regulations, immediately after use.

STORAGE

Chem-Sentry® II has a shelf life of twelve (12) months from date of manufacture in original, factory sealed containers.

LIMITATIONS

Chem-Sentry® II should not be applied in areas where the surface will come into continual contact with water.

The uncured materials used in Chem-Sentry® II are very sensitive to heat and moisture. Higher temperature and/or high humidity will accelerate the cure time. Use caution in batch sizes and

thickness of application. Low temperature and/or low humidity extends the cure time and the use of accelerators may be necessary.

Each application phase to an area should be done in one complete step. A continuous application will ensure a smooth and level coat with no lines or streaks.

Material remaining after application must be tightly sealed to protect it against curing in its container.

WARNING

This product contains Isocyanates and Solvent.

Part-A of this product is considered Dangerous Goods. DOT regulations classify it as: **UN 1263, PAINT, Class 3, PG III, FLAMMABLE LIQUID.**

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data and instructions.

LIMITED WARRANTY

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical properties. PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PSI makes no claim that these tests or any other tests, accurately represent all environments.