



# CHEM-SENTRY® CR8200

## Chemical Resistant Polyaspartic Topcoat

### 1.01 DESCRIPTION

Chem-Sentry® CR8200 is a chemical resistant, polyaspartic, environmentally friendly, surface topcoat for flooring systems. Chem-Sentry® CR8200 is quick curing and specifically formulated to be installed in thin film applications. It is designed for use in Southern California and is in compliance with SCAQMD air quality standards for Industrial Applications. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

### 1.02 FEATURES

- Abrasion Resistance
- Applications Ranging from 35 to 130°F (1.7 to 54.4°C); Service Temperature from 0 to 200°F (-17.8 to 93.3°C)
- Excellent Weatherability
- For Use in SCAQMD Areas
- High Gloss
- High Tensile Strength
- Quick Cure
- Skydrol Resistance
- Superior Chemical Resistance
- Topcoat Over Aromatic Polyurea, Polyurethane and Epoxy
- UV Resistance for Superior Gloss Retention
- Very Durable

### 1.03 USES

- Chemical Plants
- Cold Storage Areas
- Concrete
- Fertilizer Plants
- Food Processing Area
- Industrial Warehouses
- Off-Shore Oil Platforms
- Pipeline Barges
- Plastic
- Plywood
- Pulp & Paper Mills
- Steel

### 1.04 COLOR

Clear

### 1.05 PACKAGING

2-gallon kit: 1 gallon (3.78 liters) can of Side-A and 1 gallon (3.78 liters) can Side-B

10-gallon kit: 5 gallon (18.9 liters) pail of Side-A and 5 gallon (18.9 liters) pail of Side-B

### 1.06 MIXING

Chem-Sentry® CR8200 may not be diluted under any circumstance. Proportions are premeasured. Chem Sentry® CR8200 Side-A and Side-B should be mixed individually before combining. Add Side-B to

### TECHNICAL DATA (Based on draw down films)

Mix Ratio by Volume	3A : 1B
Theoretical Coverage Rate	1 gallon/100-150 sqft (0.30 - 0.4 liters/sqm)
Solids Content	100%
Pot Life at 75°F (24°C), 50% R.H.	30-45 minutes
Dry Film Thickness per Coat	5 ± 1 mils (127 ± 25 microns)
Hardness, ASTM D-2240 Shore D	80 ± 5
Specific Gravity	A-Side: 1.17 ± 0.1 lbs/gal B-Side: 1.5 ± 0.1 lbs/gal
Solids by Weight ASTM D-2369	100 ± 2%
Solids by Volume ASTM D-2697	100 ± 2%
Volatile Organic Compounds, ASTM D-2369-81	0.0 lbs/gal (0 gm/liter)

Side-A while mixing, using a mechanical mixer at medium speed. Mix until a homogeneous mixture and color is attained (at least 2 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. Use caution not to whip air into the material as this may result in pinhole blisters and shortened pot life. Do not mix in an up and down motion. Do not mix any material that cannot be used within 10 minutes.

### APPLICATION

#### 2.01 APPLICATION BASICS

Chem-Sentry® CR8200 can be applied by a phenolic resin core roller, a high pressure sprayer, or through a cup gun under low pressure. Chem-Sentry® CR8200 should be applied at a minimum film thickness of 5 mils. It should be noted that the heavier the application, the longer the curing process. Apply Chem-Sentry® CR8200 evenly over the entire deck.

#### 2.02 CURING

Allow each coat to cure 6-8 hours at 75°F (24°C) and 50% relative humidity. Allow 12 hours before permitting light pedestrian traffic

and at least 24-48 hours before permitting heavy pedestrian traffic onto the finished surface.

Uncured Chem-Sentry® CR8200 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or humidity will extend the cure time.

### **2.03 EQUIPMENT CLEANUP**

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

### **2.04 SHELF LIFE AND STORAGE**

Chem-Sentry® CR8200 has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

### **2.05 LIMITATIONS**

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

The following conditions must not be coated with PSI deck coating systems or products:

- 1) On grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool, swimming pool decks, or areas where hydrostatic pressure is or may be present, without the use of Enviro-Grip™ 404FC primer. PSI Deck Coating is not recommended over magnesite, gypsum lightweight and where chained or studded tires may be used.
- 2) Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 2-3 or greater is required for concrete surfaces to be coated.
- 3) New concrete must be cured for 28 days unless otherwise approved by PSI in writing. New surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function. Light broom finished concrete should be power-washed before coating application.

4) Concrete cleaning (see general guidelines). Surface preparation may be completed by shotblasting or the use of Poly-Tuff Profile and Etch (PE) cleaner. Peel and adhesion tests are recommended.

**WARNING: This product contains isocyanates and solvent.**

Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. PSI Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with PSI Products or have undergone training in application of PSI Products. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data, instructions, and project specific recommendations.

#### **LIMITED WARRANTY**

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical and chemical properties. 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 user's 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.