



# CHEM-GUARD 80

## Two Component High Chemical Resistance Solvented Epoxy Coating System

### PRODUCT DESCRIPTION

CHEM-GUARD 80 is a two-component solvented epoxy coating ready-to-use. The product has high solids content and is formulated for high performance and high chemical resistance applications.

### FIELDS OF APPLICATION

Abrasion and chemical resistant, heavy-duty coating for use on floors in maintenance areas, generator rooms, aircraft hangars, workshops, warehouses, computer rooms, car parking, factory floors, and hospitals. A practical and decorative coating system, for application on concrete, steel, galvanized metal, masonry and wood.

### PRODUCT FEATURES

- Chemically resistant
- Economical
- Easily applied
- Waterproof
- Hygienic
- Abrasion resistant
- Decorative

### PACKAGING

Product	Packaging
CHEM-GUARD 80	1 Gallon (3.785 Liter) Unit

### TECHNICAL DATA

#### Properties for uncured Parts:

Property @ 25°C (77°F)	Part A – Resin	Part B – Hardener	Test Method
Solids by weight, %	81 %	73 %	-
Color	Grey	Amber	-
Density, Lb/Gal (Kg/L)	12.2 (1.46)	7.9 (0.95)	ASTM D1475
Shelf Life	2 years	2 years	-

#### Properties for cured Parts:

Property	Value @ 25°C	ASTM Method
Mixed Density, Lb /Gal (Kg /Liter)	11.5 (1.38)	D-1475
Gel Time @ 60 grams, minute	360	D-2471
Pot Life @ 5 kg, minute	210	-
Hardness (Shore)	30 D, 78A	D-2240
Bond Strength to concrete	Concrete Failure	D-4541 Method C
Bond Strength to steel, Psi (MPa)	11.3 (1.36)	C-321
Water Absorption	0.24 %	D-570
Recoat Interval, hour	6 to 72*	-
Solid Content by weight, %	80	-
Final Cure, day	10	-

\* depending on temperature

**Chemical Resistance:** tests are performed according the ASTM D543 –Practice A (Immersion test for 7 days at 25°C). The fully cured CHEM-GUARD 80 coating is resistant to:

- Water (Distilled, Tap, chlorinated, sewage, sea)
- Economical
- Sulfuric acid 70%wt\*
- Sulfuric Acid 50%wt
- Citric Acid 30%wt
- Isopropanol
- Xylene
- Acetic Acid, 10% wt
- Caustic Soda, 30%
- Hydrochloric Acid, 38%
- Diesel
- Diesel Engine Oil
- Hydraulic Oil

\* Small Surface Blisters.

Refer to manufacturer for resistance of other reagents.

### APPLICATION OF DATA

**Limitations:** Application at ambient temperature below approximately 41°F (5°C) is not recommended. Exposure to temperatures exceeding 65°C for prolonged periods is not recommended.

#### Surface Preparation:

**Concrete Substrate:** as with all coatings it is imperative that proper surface preparation is achieved. Allow new concrete to cure, prepare by sandblasting or grinding. Surfaces should be sound or taken back to a sound base then reinstated where necessary. All grease, curing compounds, laitance or other deleterious matter should be removed.

**Steel Surfaces:** minimum requirements of commercial sandblasting to SA 2½.

**Galvanized Metal:** roughen up surface and degrease using solvents, ensure adhesion by testing.

**Wood Surfaces:** Sand smooth and remove contaminants.

**Mixing:** component B should be added to component A ensuring they are completely mixed. Mixing can be manual or by slow speed drill and mixing paddle.

**Application:** after thoroughly mixing the product, apply by either brush, roller, or airless spray equipment. Apply the first coat ensuring no pinholes are visible. The second coat should be applied after 6 hours at 77°F (25°C). Anti slip finish can be obtained by sprinkling silica aggregate 0.1-0.3 mm grain size into the first coat. Ensure that any loose aggregate is removed prior to the application of the second coat.

### CLEANING

Remove uncured CHEM-GUARD 80 from tools and equipment with suitable solvents such as Xylene, Toluene or CHEM-CRETE BLENDED SOLVENT immediately after use. Cured material may only be removed mechanically.

### STORAGE

At least one year in unopened cans. Containers should be stored in air-conditioned facilities.

### SAFETY PRECAUTIONS

Keep resin and hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas.

### TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

### WARRANTY

**LIMITED WARRANTY:** International Chem-Crete Inc. warrants that, at the time and place we make shipment, our

materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

**DISCLAIMER:** The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. International chem-crete Inc. is not under any circumstances liable to connection with the use of information. As International Chem-Crete Inc. has no control over the use to which others may put its products, it is recommended that the products be tested to determine the suitability for specific applications and/or our information is valid in particular circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for specific application and assume all responsibility in connection therewith. AM22319.

**Manufactured By:**



International Chem-Crete Inc., 800 Security Row, Richardson, TX 75081, U.S.A  
Tel: (972) 671-6477, Fax: (972) 238-0307  
[contactus@chem-crete.com](mailto:contactus@chem-crete.com) [www.chem-crete.com](http://www.chem-crete.com)