



# Duraguard 100 WB

Water Based Epoxy Primer/Sealer

SPECIALTY CONSTRUCTION PRODUCTS

## PRODUCT DATA

### DESCRIPTION

ChemMasters' **Duraguard 100WB** is a two component, Volatile Organic Compound (VOC) compliant water based epoxy used as a primer for epoxy or urethane topcoats. Two coats of **Duraguard 100WB** may be used as a light duty sealer.

### ADVANTAGES

- Low odor allows application in occupied structures
- Can be used over damp concrete surfaces
- May be sprayed for ease of application
- Excellent depth of penetration and adhesion
- Dries quickly reducing downtime and labor costs
- Economical and cost effective epoxy coating
- Available in clear and pigmented formulations

### USES

- Seals interior floors and walls
- Primer for urethanes, epoxies, or other polymer coatings, for flooring and wall coating systems
- Light duty sealer (2 coats): For foot traffic, light commercial, light duty industrial surfaces such as locker rooms, cafeterias, schools, machine shops, and lavatories

Mix Ratio	
Clear	3 Part A:1 Part B
Pigmented	2 Part A:1 Part B

### TECHNICAL DATA

Physical Properties	
VOC Content	< 290 g/L
Solids by volume	54% +/- 5%
Viscosity (mixed) Clear	670 cps
Viscosity (mixed) Pigmented	850 cps
Mandrel Flexibility @ 1/8 "	Passes
Sward Hardness	32
Impact Resistance ASTM D2794	>160 inch pounds
Adhesion ASTM D4541	>350 psi concrete failure
Hardness ASTM D3363	3H to 4H
Flexibility ASTM D522	Pass
Elongation ASTM D2370	3 to 6%
Recoat Time @ 70°F (212°C)	6 to 8 hours
Coefficient of Friction ASTM D2047	>0.6
Abrasion Resistance CS17 Wheel (1000g load) ASTM D4060 1000 cycles	42 mg loss

Packaging		
Product	packaging	Part number
Clear Duraguard 100 WB	4 gallon units	F5030.CL
Pigmented Duraguard 100 WB	3 gallon units	F5030.* varies by color

Estimating Guide	
Primer	200 ft <sup>2</sup> / gal (5 m <sup>2</sup> /L)
Top Coat	200 ft <sup>2</sup> / gal (5 m <sup>2</sup> /L)



Chemical Resistance		
Recommended	Not Recommended	Conditional Staining/softening
Ammonium Hydroxide	Chromic Acid 10%	Phosphoric Acid 35%
Sodium Hydroxide	Hydrochloric Acid 31%	Sulfuric Acid 30%
Sodium Chloride	Nitric Acid 70%	Acetic 5%
Calcium Chloride	Phosphoric Acid 80%	Bleach
Trisodium Phosphate	Sulfuric > 50%	
Ethyl Alcohol	Acetic 20%	
Isopropyl Alcohol	Acetic Glacial	
Methyl Alcohol	Methylene Chloride	
Auto Brake Fluid		
Hyjet #3 Brake Fluid		
Skydrol 500 A&B Brake Fluid		
Gasoline		
Jet A Fuel		
Toluol		
Trichloroethylene		
Perchloroethylene		
Butyl Cellusolve		
Acetone		
PM Acetate		
Beer		
Cola		
Milk		
Mustard		

Chemical Resistance Data is based on 24 hour spot testing @ 5 mils. The information is correct to the best of our knowledge. Test patch is recommended to determine actual resistance to chemical contact.

### DIRECTIONS

Surface Preparation: This is the most critical step. All concrete must be mechanically or chemically profiled. Duraguard 100WB is a very thin film and will not cover lines created by a shot blast preparation. Typical surface preparation is acid etching or light scarifying. Thoroughly rinse acid residue before coating.

#### This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT

We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Remove all puddles of water; surface may be damp.

**Mixing:** Mix Duraguard 100WB with a drill equipped with a jiffler blade before use. Use the entire contents of Part B and Part A. Pour Part B into Part A and mix thoroughly at low RPM for 2 to 3 minutes until color is uniform. Avoid contact between the jiffler blade and plastic bucket to prevent plastic particles in the mix. Five minutes of induction time is necessary before applying. After induction, mix an additional 2 minutes then apply immediately.

**Note:** Disperse mixed material rapidly. Working time is drastically reduced as product stands in container.

**Application:** Apply using medium pressure spray equipment, 3/8" short nap roller, or brush. A test panel is always recommended.

**Recoat:** Dry 3 to 5 hours at 70°F (21°C) to tack free condition between coats. Recoat must be done <24 hrs after initial coat. > 24 hours the surface must be lightly sanded or screened before additional coatings.

**Cleanup:** Clean tools and equipment with soap and water immediately after use.

### LIMITATIONS

- Use only when floor and ambient temperature are >55°F (13°C) and <85°F (29°C)
- Do not apply in the presence of foodstuffs. USDA approval pertains to fully cured material only.
- **Duraguard 100WB** is not formulated for immersion, primary or secondary containment, or highly aggressive chemicals. Consult ChemMasters' Technical Service Staff for alternate product recommendations.
- Do not use as a sealer in heavy industrial situations with steel wheeled traffic or under aggressive abrasion

### STORAGE

Keep from freezing. Store unmixed material in tightly closed containers at temperatures > 50°F (10°C) < 70°F (23°C)

### Cautions

Use the most current version of the Product Data Sheet and Safety Data Sheet. These can be found at [www.chemmasters.net](http://www.chemmasters.net) or contact ChemMasters' Customer Service at 1-800-486-7866 to verify the most current version.

Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.