



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

DURAGUARD 100 WB

WATER BASED EPOXY
PRIMER/SEALER



PRODUCT DATA

DESCRIPTION

Duraguard 100 WB is a two-component, V.O.C. compliant epoxy. It is water based and can be used as a primer for epoxy or urethane topcoats. Two coats of Duraguard 100 WB alone may be used as a light duty sealer.

USES

- Interior floors and walls; primer or sealer
- Dry or damp concrete surfaces
- Primer for Duraguard 310 CRU or other polymer coatings
- Foot traffic, commercial and light duty industrial
- Locker rooms, cafeterias, schools, lavatories
- Retail outlets, malls, museums, airline hangars and service stations

ADVANTAGES

- Low odor allows application in occupied structures
- 50% solids formulation provides increased depth of penetration and adhesion
- Sprayable for ease of application; dries quickly reducing downtime and labor costs
- With Duraguard 310 CRU topcoat produces an economical, chemical resistant floor system for airline hangars and auto showrooms
- Standard Duraguard 100 WB colors are Clear, Light Gray, Dark Gray, Tile Red, Beige and White. Other colors are available subject to minimum order requirements.

TECHNICAL DATA

- Complies with National Volatile Organic Compound Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59

V.O.C. Content: 257-288 gm/L
Solids: 45% min.

- USDA approved for incidental contact in federally inspected meat and poultry plants.

Viscosity (mixed) Clear 670 cps
Pigmented 850 cps

CHEMICAL RESISTANCE TABLE

Alkalies	Rating	Comments
Ammonium Hydroxide	R	
Sodium Hydroxide	R	
Sodium Chloride	R	
Calcium Chloride	R	
Trisodium Phosphate	R	
Alcohols		
Ethyl Alcohol	R	
Isopropyl Alcohol	R	
Methyl Alcohol	R	
Brake fluids		
Auto	R	
Hyjet #3	R	
Skydrol 500 A&B	R	
Inorganic Acids		
Chromic 10%	N/R	Removal
Hydrochloric 31%	N/R	Removal
Nitric 70%	N/R	Removal
Phosphoric 35%	C	Staining/Softening
Phosphoric 80%	N/R	Removal
Sulfuric 30%	C	Staining/Softening
Sulfuric 50% and up	N/R	Removal
Organic Acids		
Acetic 5%	C	Staining/Softening
Acetic 20%	N/R	
Acetic Glacial	N/R	
Solvent & Ketone		
Gasoline	R	
A-1 Jet Fuel	R	
Toluol	R	
Methylene Chloride	N/R	Removal
Trichlorethylene	R	
Perchloroethylene	R	
Butyl Cellusolve	R	
Acetone	R	
PM Acetate	R	
Miscellaneous		
Beer	R	
Cola	R	
Milk	R	
Mustard	R	
Bleach	C	Staining

This information is based on 24 hour spot testing @ 5 mils. The information is correct to the best of our knowledge. We recommend a test patch to determine actual resistance to chemical contact.

Ratings: R - Recommended N/R - Not Recommended C - Conditional



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TECHNICAL DATA CONTINUED

Dry Time @ 70°F./21°C. with 50% R.H.

Tack free	3-5 hours
Dry time	4-8 hours
Full Cure Time	5-7 days

Mandrel Flexibility @ 1/8 in./32 cm
Passes

Sward Hardness 32

V.O.C.(grams/liter) Clear 288
Colors 257

SUGGESTED SYSTEM COMPONENTS

PRIMER: Duraguard 100 WB, Water Based Epoxy Primer for excellent adhesion to concrete substrate

TOPCOAT: Duraguard 100 WB, Water Based Epoxy Sealer for mild chemical and abrasion resistance

ALTERNATE TOPCOAT: Duraguard 310 CRU, chemical resistant urethane coating for superior chemical, abrasion and UV resistance

PACKAGING

Duraguard 100 WB clear is packaged in 1 U.S. gallon/3.8 liter and 4 gallon/15 liter units. Duraguard 100 WB colors are packaged in 1 U.S. gallon/3.8 liter and 3 gallon/11 liter units.

ESTIMATING GUIDE

		Ft. ² /gal	M ² /L	mils
PRIMER:	Duraguard 100 WB	500	12	3.2
COATING:	Duraguard 100 WB	500	12	3.2
	Duraguard 310 CRU	330	7.4	5

Coverage depends on surface texture and porosity. Mil thickness when dry is as follows:

Clear	1.28 dry mils
Pigmented	1.76 dry mils

DIRECTIONS

SURFACE PREPARATION: This is the most critical step in any coating application. All concrete must be mechanically or chemically profiled. For complete surface assessment and preparation guidelines, refer to ChemMasters Technical Bulletin, "Guide to Surface Preparation", or contact your nearest distributor.

MIX RATIO: Clear 3 Part A Resin:1 Part B Hardener
Colors 2 Part A Resin:1 Part B Hardener

Mixing: Duraguard 100 WB must be mixed with a drill equipped with a jiffiler type blade before application. Pour all of the Part B Hardener into the Part A Resin and mix

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

thoroughly at a low RPM speed for 2-3 minutes until uniform in color. It is important to avoid excessive contact of the jiffiler blade with the inside of the plastic pail to eliminate plastic particles in the mixed material. Allow to stand for 5 minutes induction time prior to applying.

FOR PRIMER COAT ONLY: After induction, the product may be reduced up to 25% by volume with water. Remix for 2 minutes, then apply.

WHEN USED AS A TWO COAT SYSTEM: Do not dilute material for second coat application.

Note: Disperse mixed material rapidly. If product is left in mixing container in a large mass, the working time is drastically reduced.

APPLICATION: Apply the mixed Duraguard 100 WB using medium pressure spray equipment, 3/8" nap, solvent resistant roller, or brush. Do not pour directly on the floor. A TEST PANEL IS ALWAYS RECOMMENDED.

RECOAT: Duraguard 100 WB generally requires 3-5 hours at 70°F./21°C. to reach tack free condition for subsequent treatments.

Maximum recoat time is twenty-four hours after initial application. If more than twenty-four hour has elapsed, Duraguard 100WB must be lightly sanded or screened before any subsequent applications of coatings or top-pings.

CLEANUP

Before the mixed Duraguard 100 WB sets, clean tools and equipment with soap and water. Discard roller covers.

LIMITATIONS

- Do not use when floor and ambient temperature are below 55°F./13°C. or above 85°F./29°C.
- Do not apply in the presence of foodstuffs. USDA approval pertains to fully cured material only.
- Duraguard 100 WB 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. The use of Duraguard 100 is recommended as an alternate.

STORAGE

Keep from freezing. Store unmixed material in tightly closed containers at normal room temperatures between 50°F./10°C. and 75°F./23°C, away from direct sunlight and sources of heat. Part B is a combustible liquid.

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.