



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

DURAGUARD 100

100% SOLIDS EPOXY
PRIMER AND SEALER

P R O D U C T D A T A

DESCRIPTION

DURAGUARD 100 is a two component, low modulus, low viscosity, 100% solids, moisture tolerant epoxy primer and concrete sealer.

USES

- Sealer for interior, horizontal concrete surfaces
- Primes concrete surfaces specified to receive epoxy, novalac or urethane coatings and top-pings

ADVANTAGES

- Excellent adhesion to dry or damp surfaces
- V.O.C. compliant, low odor, may be applied in occupied structures
- Low viscosity allows for deep penetration into prepared concrete for excellent bond

TECHNICAL DATA

V.O.C. Content: 0 gm/L

AASHTO M-235

Michigan DOT, 8.16.05, Type 1

USDA approved for use in federally inspected meat and poultry plants.

Gel time, 150 ml/0.5 cup 32 minutes

Recoat time @ 75°F (24°C) 6 hours

Appearance Clear to pale amber

Viscosity

Part A Resin	600 cps
Part B Hardener	425 cps

Shear Bond Strength (ASTM C-882)
7 days 1150 psi (8 MPa)

Shrinkage (ASTM C-883) Passes

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

PACKAGING

DURAGUARD 100 is available in 3 gallon (11.4 liter) and 15 gallon (56.8 liter) units. A 3 gallon unit consists of 2 gallons of Part A resin package in a 5 gallon steel pail and 1 gallon of Part B hardener package in a 1 gallon steel can. A 15 gallon unit consists of two 5 gallon pails of Part A resin and one 5 gallon pail of Part B hardener.

ESTIMATING GUIDE

Primer	200 Ft. ² /gal	5 M ² /L
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DIRECTIONS

SURFACE PREPARATION: This is the most critical step in any coating application. All concrete must be a minimum of twenty-eight days old and mechanically or chemically profiled to the feel of 100 grit sandpaper. The concrete must be free of dirt oil, grease, sealers or any contaminants the may interfere with the bond to the concrete.

For primer applications, ambient temperature is to be between 60°-90°F (15°-32°C). Prior to application of **DURAGUARD 100**, test moisture vapor emission every 1000 square feet of concrete floor using ASTM F1869 test method (calcium chloride). Vapor emissions must be less than 3 pounds of water in 24 hours for each test prior to product application. If vapor emissions exceed 3 pounds, contact ChemMasters before applying product.

MIX RATIO: 2 Parts A Resin: 1 Part B Hardener.

MIXING: **DURAGUARD 100** must be mixed before application. Pour all of the Part B Hardener into the Part A Resin. Mix thoroughly for 2-3 minutes until uniform in color. Use a slow speed drill fitted with a jiffler blade to prevent air entrapment.

APPLICATION: Apply the mixed **DURAGUARD 100** with a brush, broom, squeegee or solvent resistant roller. **DURAGUARD 100** may also be applied with a 2,000 psi airless sprayer equipped with a .021 orifice tip. For optimum uniformity when spraying, add 1 quart (0.94 L) of MEK to each 3 gallon unit of **DURAGUARD**



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100 and mix well. Backroll with a 1/4 inch (.63cm) nap roller.

RECOAT: **DURAGUARD 100** generally requires a minimum of 6-7 hours to reach tack free condition. When using **DURAGUARD 100** as a primer for a polymer coating system, **DURAGUARD 100** must dry to tack free prior to top coat application. When using **DURAGUARD 100** as a primer for a trowel down application such as **DURASTONE 140**, the **DURAGUARD 100** must still be tacky when the trowel down topping is applied for proper bonding. Refer to specific coating / topping data sheet for recoat window conditions. When using **DURAGUARD 100** as a tie-coat sealer, allow to dry tack free before applying additional coatings. If no topcoat is applied to the **DURAGUARD 100** within 48 hours, it will be necessary to sand or screen the **DURAGUARD 100** prior to application of a polymer coating to ensure bond. Sweep dust and solvent wipe the **DURAGUARD 100** immediately prior to applying the polymer coating.

CLEANUP

Clean tools and equipment before material dries and sets with **POLYSEAL SOLVENT**, xylene or xylol.

LIMITATIONS

- Avoid applying any polymer coating in direct sunlight during times of extreme heat. This can cause wrinkling, pinholes and blistering.
- Not for exterior use as a topcoat.
- When used as a primer or tie coat sealer, **DURAGUARD 100** is not intended for use at ambient or surface temperatures below 60°F (15°C). When used as a bonding agent, surface and ambient temperature must be 40°F (4°C) minimum.

STORAGE

Store tightly sealed containers of unmixed material at normal room temperature in dry area. Shelf life of properly stored material is one year from date of manufacture.

CAUTIONS

CORROSIVE LIQUID: Corrosive to eyes. Causes skin irritation, sensitization or chemical burns. Respiratory tract irritant. Use with adequate ventilation. Do not take internally. Keep out of reach of children.

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.