



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

DURAFLOW 150

SELF-LEVELING EPOXY TOPPING

P R O D U C T D A T A

DESCRIPTION

Duraflow 150 is a three component, self-leveling, epoxy topping composed of a two part, 100% solids epoxy and precisely blended aggregate. All components are precisely measured and packaged for accurate on-site mixing and use.

USES

- New or old, interior, horizontal concrete surfaces
- Industrial, commercial, municipal and warehousing applications
- Resurfacing spalled, pitted or deteriorated concrete floors
- Electronic and vehicular assembly plants, fabrication and packaging facilities
- Retail outlets, malls, kitchens, entry ways, showrooms and hangers

ADVANTAGES

- Excellent compressive, flexural and tensile strengths
- Excellent impact and abrasion resistance
- Produces a smooth, seamless color fast finish
- Eliminates potential trowel marks and uneven finishes.
- Excellent wear resistance in harsh mechanical environments
- Resistant to many acids, alkalies and solvents
- Available in a variety of colors

TECHNICAL DATA

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

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

USDA approved for incidental contact in meat and poultry packaging facilities

Moisture Vapor Emission Rate (ASTM F-1869)

Recommended max. for Duraflow 150 application
< 5 lbs per 000 sf in 24 hours

Gel Time @ 70°F (21°C) 30 minutes

Compressive Strength (ASTM C 109)
7 days 7200 psi (50 MPa)

Tensile Strength (ASTM C 307)
7 days 1550 psi (10.7 MPa)

Flexural Strength (ASTM C 348)
7 days 2800 psi (19 MPa)

Shore D Hardness (ASTM D 2240)
7 days 75

SUGGESTED SYSTEM COMPONENTS

PRIMER: Duraguard 100, epoxy primer
BODY COAT: Duraflow 150, self-leveling epoxy topping
TOPCOAT: Duraguard 310 CRU, urethane for increased chemical and wear resistance

ESTIMATING GUIDE

Duraguard 100	8 mils	200 Ft. ² /Gal
Duraflow 150	1/8"	60 Ft. ² /unit
Duraguard 310	4 mils	300 Ft. ² /Gal

A standard unit of Duraflow 150 consists of:

Part A Resin	2 gallons (7.6 L)
Part B Hardener	1 gallon (3.8 L)
Part C Aggregate	50 pounds (22.6 Kg)

Part A packaged in 6 gallon pail for mixing, Part B in 1 gallon can and Part C in a 50 pound bag.

RECOMMENDED EQUIPMENT

A hand held adjustable screed rake, notched squeegee, porcupine roller and spiked shoes.

DIRECTIONS

SURFACE PREPARATION: This is the most critical step in any coating application. All concrete must be a minimum of 28



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days old and mechanically or chemically profiled. For complete surface assessment and preparation guidelines, contact ChemMasters technical service staff.

Minimum surface and ambient temperature for application of Duraflow 150 is 50°F (10°C). Do not apply Duraflow 150 if surface or ambient temperature exceeds 100°F (38°C).

Surfaces that slope to floor drains or are moderately out of level require special consideration. Plug and/or mask any utility holes in floors to prevent material from flowing into void and causing loss of topping or clogging entry. Consult ChemMasters' technical service staff for specific recommendations.

PRIMING: To ensure maximum adhesion, an application of Duraguard 100 epoxy primer must first be used to prime the substrate prior to the application of Duraflow 150. See Duraguard 100 technical data sheet for mixing and application instructions. Duraflow 150 should be applied when the primer is tack free.

MIXING: Duraflow 150 must be mixed before application. Use entire contents of each component. Pour the 1 gallon of Part B Hardener into the Part A Resin. Mix thoroughly for a minimum of one (1) minute or until a uniform color results. Gradually add all of the premeasured Part C Aggregate and mix thoroughly using a 1/2" heavy duty drill at low RPM speed and fitted with a jiffler blade. Properly mixed Duraflow 150 is a smooth, homogenous blend. Total mixing time per unit is approximately three (3) minutes.

APPLICATION: Pour the mixed material onto the primed concrete and spread with a hand held screed rake or notched squeegee set to 1/8 inch. After spreading the Duraflow 150 to the proper thickness, gently roll the material with a porcupine roller to eliminate air bubbles. Do not attempt to pull Duraflow 150 thinner than 1/8 inch as it will not level properly. If a thinner coating is required, contact ChemMasters for assistance.

TOPCOAT: Duraflow 150 should be tack free prior to the application of any topcoat. This is generally a minimum of 12 hours or an overnight cure.

CLEANUP

Clean tools and equipment before material dries and hardens with xylene, xylol or glycol ether PM acetate.

LIMITATIONS

- Avoid applying any polymer coating in direct sunlight during times of extreme heat. This can cause wrinkling, pinholes and blistering. Application should be scheduled for early morning or late afternoon when ambient and substrate temperatures are at their lowest.
- Not for exterior use as a topcoat. Consult ChemMasters technical service department for situations other than those described in this data sheet.
- Do not thin Duraflow 150 with water or solvent. Solvents prevent proper cure.
- Duraflow 150 is packaged in precisely measured units for accuracy of mix ratios. It is critical to a successful application that entire contents of all components are used.
- Do not use when surface or ambient temperatures are below 50°F (10°C).
- Disperse mixed material rapidly. If product is left in mixing container in a large mass, the working time is drastically reduced.

STORAGE

Store unmixed material in tightly sealed containers at 50°-75°F (10°-21°C), away from direct sunlight or sources of heat. Shelf life of properly stored materials is one year from date of manufacture.

CAUTIONS

Epoxies are 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.

All label precautions and the MSDS must be fully understood before using this product.

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.