



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

DURAFLOW 350

SEMI SELF LEVELING
CEMENTITIOUS URETHANE SLURRY MIX

P R O D U C T D A T A

DESCRIPTION

DuraFlow 350 is a semi self leveling medium to heavy duty, solid color three component cementitious urethane mortar designed to provide excellent resistance to thermal stress, abrasion, impact and chemical attack. DuraFlow 350 is typically installed from 1/8 to 3/16 inches (4-6 mm) thick.

USES

- Food processing plants, wet & dry process areas subject to thermal shock and heavy impact and abrasion
- Primarily to protect concrete substrates, but also effective over metal and wood surfaces
- Both interior and exterior application

ADVANTAGES

- Will perform through a range of temperatures from -40°F (-40°C) to 240°F(115°C)
- Resist a wide range of organic and inorganic acids, alkalis, amines, salts and solvents
- Exceptional compressive, tensile and flexural strengths
- Superior durability, abrasion and impact resistance
- Behaves plastically under impact / deforms but doesn't crack or disbond
- Low odor installation

TECHNICAL DATA

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

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

Pot Life 20-25 minutes

Cure Time @ 70°F (21°C)

Foot traffic	12 hours
Light wheel	16 hours
Full service	5 days

Compressive Strength ASTM D-695

	psi	MPa
7 days	5,500	38

Tensile Strength ASTM C-307

1,000 8

Flexural Strength ASTM C-348

2,400 17

Coefficient of Thermal Expansion ASTM C531

0.95 x10⁻⁵ in/in/°F

Hardness ASTM D-2240 Shore D

80

Bond Strength ASTM D-4541

>250

PACKAGING

DuraFlow 350 is a 3 component product typically packaged as follows:

Part A Resin	0.85 ga in a 1 ga can
Part B Hardener	0.75 ga in a 1 ga can
Part C Filler	50 pound bag

This DuraFlow 350 unit is available in tile red and light gray. Special colors are available subject to minimum order quantities.

A unit of DuraFlow 350 will cover 28 to 30 square feet at 3/16 inches thick

DIRECTIONS

SURFACE PREPARATION: This is the most critical step in any coating application. Concrete must be structurally sound and properly cured. All concrete must be cleaned of all foreign material and mechanically profiled to the feel of 80-100 grit sandpaper. Repairs to floor including filling holes, cracks or joints should be completed with the appropriate ChemMasters product prior to application. There should be no standing water on the floor. DuraFlow 350 is best suited for application temperatures between 45° and 85°F (7.2°-29.4°C).

PRIMING: A primer is not required for most DuraFlow 350 applications. In areas of concern about the concrete quality, a primer coat of DuraGuard 100



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An American Owned & Operated Company
300 EDWARDS STREET • MADISON, OHIO 44057-3112
(440) 428-2105 • FAX (440) 428-7091 • ORDER LINE: (800) 486-7866 * www.chemmasters.net

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@ 200 square feet per gallon is advised. Apply the DuraFlow 350 after the primer is dry to the touch, but within 72 hours of primer application.

MIXING: For optimum results, mix complete units of DuraFlow 350. Use a drill & paddle for mixing. Use a clean 5 gallon pail to mix a unit. Add Part A and Part B to the mixing pail and blend for one minute. While continuing to mix, gradually add the Part C and continue to mix for 2 more minutes at medium speed.

APPLICATION: One unit of DuraFlow 350 will cover 28-30 square feet @ 3/16 inch. Spread material over the floor with a notched squeegee or gauged rake set at the appropriate depth. Spread newly mixed material into previous mixes before the surface begins to set. Do not feather edge. Immediately spike roll the surface to remove entrapped air. Allow a minimum 12 hour cure period before opening to foot traffic.

CLEANUP: Before the mixed DuraFlow 350 dries, use Xylene or another solvent to clean tools and equipment.

LIMITATIONS

Do not thin material with solvents or water. Do not apply in the presence of foodstuffs. Do not expose to chemicals for a minimum of 12 hours. Do not apply at temperatures below 40°F (4°C) or above 85°F (29°C). Color uniformity may vary from batch to batch. Avoid applying any polymer coating in direct sunlight during times of extreme heat. This can cause wrinkling, pinholes and blistering. Do not apply to cracked or unsound concrete.

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

Make certain that the most current versions of the product data sheet and MSDS are being used. Go to 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.

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.