



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

DURASTONE 340

TROWEL APPLIED (3/16-1/4")
CEMENTITIOUS URETHANE MORTAR

P R O D U C T D A T A

DESCRIPTION

Durastone 340 is a trowel grade, heavy duty, solid color three component cementitious urethane mortar designed to provide excellent resistance to thermal stress, abrasion, impact and chemical attack. **Durastone 340** is typically installed from 3/16 to 1/4 inches (6-9 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)
- Exceptional compressive, tensile and flexural strengths
- Superior durability, abrasion and impact resistance
- Resists a wide range of organic and inorganic acids, alkalis, amines, salts and solvents
- Natural textured surface provides anti-slip
- Low odor installation
- Can be applied over partially cured concrete as long as moisture is less than 10%

TECHNICAL DATA

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

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

Cure Time @ 70°F (21°C)

Foot traffic	8 hours
Light wheel	12 hours
Full service	3 days

Pot Life 15 minutes

Compressive Strength ASTM D-695

	psi	MPa
5 day	8,500	58.60

Tensile Strength ASTM C-307

5 day	540	3.70
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Flexural Strength ASTM C-348

5 day	3,100	21.37
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Coefficient of Thermal Expansion ASTM C531

1.1x10⁻⁵ in/in/°F

Drying Time @ 72°F (22°C) with 50% R/H

Foot traffic	12 hours
Light traffic	24 hours
Wheeled traffic	48 hours

PACKAGING

Durastone 340 is a 3 component product typically packaged as follows:

Part A Resin	0.52 ga in a 1 ga can
Part B Hardener	0.48 ga in a 1/2 ga can
Part C Filler	50 pound bag

This **Durastone 340** unit is available in tile red and light gray. Special colors are available subject to minimum order quantities.

A unit of **Durastone 340** will cover 22-24 square feet at 1/4 inch or 14-16 square feet at 3/8 inch

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 at 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.

The product is best suited for application temperatures between 45 and 85°F.



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MIXING: For optimum results, mix complete units of **Durastone 340**. A drill and paddle can be used for mixing. Using a clean container for mixing. Add Part A Resin to the pail. Optionally, add 2-4 fluid ounces **Urethane Slick** (sold separately) to the Part A and mix. The addition of **Urethane Slick** improves the workability of **Durastone 340** by reducing stickiness on the trowel. Then add the Part B Hardener to the mixing pail and blend with a drill and paddle for 1 minute. While continuing to mix, gradually add the Part C aggregate and continue to mix for 2 more minutes and medium speed.

PRIMING: A primer is not required for most **Durastone 340** applications. In areas where there are concerns about concrete quality, surface conditions, surface preparation and ambient conditions, test applications of **Durastone 340** are recommended. If the test area shows signs of blistering, debonding, pinholes or aesthetic variations, prime the concrete with **Duraguard 100** at 200 square feet per gallon. See the **Duraguard 100** technical data sheet for mixing and application instructions. Apply the **Durastone 340** while the primer is still tacky.

APPLICATION: Install cove base as required. Screed or trowel apply mixed **Durastone 340** directly to the prepared concrete floor. Hard trowel or power trowel the material to compact and level the topping to the specified thickness. Install at 1/4" to 3/8" (6-9.5mm) thick depending on job requirements. Do not feathered. **Urethane Slick** can be applied directly to the trowel to ease finishing. Lightly roll the surface to remove trowel marks and to bring resin to the surface. For maximum slip resistance in wet areas, broadcast # 24 or #36 aluminum oxide into the wet **Durastone 340** will be required to produce the best finish.

CLEANUP

Before system components dry and set, clean tools and equipment with xylene or xylol. **Urethane Slick** can also be use to clean tools.

LIMITATIONS

- Do not thin Durastone 340 with either solvents or water. Only **Urethane Slick** may be added to the unit
- Do not add more than 4 fluid ounces of **Urethane Slick** per unit of **Durastone 340**.

- Do not apply in the presence of foodstuffs. USDA approval pertains to fully cured material only.
- Do not expose to any chemicals until fully cured (minimum 12 hours @ 70°F).
- Do not apply at temperatures below 40°F (4°C) or above 85°F (29°C) or if relative humidity is above 85%
- 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.

STORAGE

Store tightly sealed containers in cool, dry place out of direct sunlight or heat. Minimum shelf life of 1 year when stored between 50°F (10°C) and 75°F (23.8°C).

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.