

DESCRIPTION

DuraForce(i) is a water-based liquid integral hardener that increases the abrasion resistance on concrete flooring. The formula is chloride free and is recommended for both interior and exterior use. The result is the creation of additional hydration products penetrating the multitude of capillaries, therefore hardening the slab during the curing process. This process results in 3-Dimensional performance throughout the entire slab, which provides an abrasion resistant slab and surface. DuraForce(i) is non-toxic and volatile organic compound (VOC) free.

PROPERTIES

Physical State	Liquid
Abrasion Resistance ASTM C779	Increased Wear Resistance
Abrasion Resistance ASTM C944	Increased Wear Resistance
Permeability Resistance CRD-C48	Zero Pass Through
Odor	Odorless
Color	Hazy Whitish Liquid
Turbidity	60-70
Freezing Point	32°F (0°C)
Boiling Point	212°F (100°C)
VOCs	0.0 g/L
Active Solids	20-25%
pH	11-12
Specific Gravity	1.19-1.23

FEATURES & BENEFITS

- No prep work required prior to application
- Integrated in the concrete mix at the plant
- Reduces shrinkage
- 3-Dimensional hardening performance
- Reduces hydrostatic permeability
- VOC compliant

APPLICATIONS

- Interior and exterior slabs-on-ground
- Industrial warehouse/distribution centers
- Automotive plants
- Heavy duty traffic
- Manufacturing plants
- Transfer stations
- Bridge decks

MIXING INSTRUCTIONS

DuraForce(i) can be added at the batch plant or at the project site. For best results, DuraForce(i) should be added directly to the freshly mixed concrete at the end of the batch process with the tail water. Mix for 7 minutes at full charging speed to ensure complete uniform distribution. DuraForce(i) is compatible with fly ash, granulated ground blast furnace slag, all chemical admixtures, and polyolefin and steel fibers. It does not promote corrosion of embedded traditional steel reinforcement.

PACKAGING & STORAGE

DuraForce(i) is available in 275 gallon totes, 55 gallon drums, and 15 gallon minidrums.

Store product above 32°F (0°C) and never allow to freeze. Do not store in direct sunlight for long periods nor in unopened containers. DuraForce(i) is water-based and significant evaporation could occur if not protected from excessive heat or sunlight. It has no shelf-life if stored properly in original, unopened packaging material. However, it is recommended that all product be used within one year of purchase for best results.

GENERAL SPECIFICATIONS

The dosage rate for DuraForce(i) is 10 ounces per 100 total cementitious material. However, a specific dosage rate should be established by the project engineer or government agency for a given application based on project conditions and requirements. DuraForce(i) shall be added per project specifications or engineer's instructions.

SUSTAINABILITY

DuraForce(i) is HPD v2.2 certified and may contribute up to 1 point on LEED projects.



As used herein, the term "FullForce" shall refer to FullForce by ABC Polymer Industries, LLC, and its subsidiaries.

FullForce warrants that its DuraForce(i) for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by FullForce, the product is free of manufacturing defects and conforms to DuraForce(i)'s product properties in force on the date of acceptance by FullForce of the order. FullForce shall only be liable under this warranty if the product has been applied, used, and stored in accordance with DuraForce(i)'s instructions, in force on the date of FullForce's acceptance of the order. Full warranty information by request at (205) 620-9889 or sales@FullForceSolutions.us.