

DESCRIPTION

DuraForce(iwp) is a water-based liquid integral waterproofing agent formulated to react with the hydroxide ions produced by the cement hydration process. 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 waterproofing the slab during and after the curing process. This process results in 3-Dimensional performance throughout the entire slab, which waterproofs the concrete from all sides. DuraForce(iwp) is non-toxic and volatile organic compound (VOC) free.

PROPERTIES

Physical State	Liquid
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	11.0-12.0
Specific Gravity	1.19-1.23

FEATURES & BENEFITS

- No prep work required prior to application
- Integrated in the concrete mix at the plant
- Closes concrete capillaries by crystalline growth
- Reduces shrinkage up to 10% by day 28 based on ASTM C494 in compliance with ASTM C157
- Zero pass through for permeability resistance per Army Corps CRD-C48
- With optional color tracer
- Compatible with structural normal and light weight concrete
- Reduces hydrostatic permeability
- Type S Admixture per ASTM C494/C494M
- VOC compliant

APPLICATIONS

- Precast
- Foundations
- Underground structures and footings
- Elevator pits and retaining walls
- Automotive plants
- Walls
- Water retaining structures
- Civil Engineering projects

MIXING INSTRUCTIONS

DuraForce(iwp) 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(iwp) is compatible with fly ash, portland-limestone cement, 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(iwp) is available in 275 gal (1040 L) totes, 55 gal (208 L) drums, and 15 gal (56 L) 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(iwp) 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(iwp) is 16 oz (473 mL) per 100 lb (45 kg) 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(iwp) shall be added per project specifications or engineer's instructions.

SUSTAINABILITY

DuraForce(iwp) 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(iwp) 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(iwp)'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(iwp)'s instructions, in force on the date of FullForce's acceptance of the order. Site environmental conditions, substrate conditions and construction have a major effect on product selection, application methods, procedures and rates, appearance and performance. Full warranty information by request at (205) 620-9889 or Sales@FullForceSolutions.us.