

DESCRIPTION

DuraForce(τ) is a topically applied, penetrating water-based silicate material that hardens and increases the density and abrasion resistance of concrete surfaces. 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 densifying the slab during the curing process. DuraForce(τ) 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	1.09-1.13

FEATURES & BENEFITS

- Permanent increased surface density
- Increased wear resistance per ASTM C779 and ASTM C944
- Exceeds performance of both ASTM C309 and ASTM C1315 for moisture retention
- Meets ASTM C309 for deleterious effects
- Meets ASTM C1308 for acid and alkali resistance
- Perfect suspension per ASTM C1309
- Solidifies within the concrete mass
- Mitigates dust from the concrete
- Compatible with all types of coverings
- VOC Compliant

APPLICATIONS

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

INSTALLATION

DuraForce(τ) is recommended to be applied with a clean/fresh tip, high-volume, low-pressure pump sprayer at 40–70 psi (0.3-0.5 MPa). Apply between the panning process and the final troweled finish. For paving applications, apply after broom finish is complete. Hold tip 18-24 inches (45-60 cm) above the concrete surface while moving side to side in a uniform pattern to achieve distribution. Do not over apply and do NOT allow ponding at the slab surface. If additional moisture is needed during the finishing process, use DuraForce(τ) as a finishing aid. The slab may be finished to a mirrored/burnished finish.

PACKAGING & STORAGE

DuraForce(τ) is available in 275 gal (1040 L) totes, 55 gal (208 L) drums, and 15 gal (56 L) minidrums, and 5 gal (18 L) buckets.

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(τ) 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.

COVERAGE

The application rate for DuraForce(τ) is 200-400 ft²/gal (5-10 m²/L). DuraForce(τ) meets the performance requirements of ASTM C309 at 400 ft²/gal (10 m²/L) and ASTM C1315 at 200 ft²/gal (5 m²/L). When using DuraForce(τ) as a finishing aid, apply as needed. However, a specific application rate should be established for a given application based on project conditions and requirements.



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

FullForce warrants that its DuraForce(τ) 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(τ)'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(τ)'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.