

DESCRIPTION

DuraForce(v-) is a water-based liquid integral vapor mitigation agent. It is formulated to react with the hydroxide ions produced by the cement hydration process. DuraForce(v-) then creates additional hydration products within the capillary pores and blocks them, which shuts down the moisture vapor movement through the concrete. DuraForce(v-) is non-toxic and volatile organic compound (VOC) free and does not contribute to or cause corrosion of traditional reinforcement steel.

PROPERTIES

Physical State	Liquid
Reduced Permeability ASTM D5084	98%
Mitigating Effect on ASR ASTM C1260	10%
Shrinkage ASTM C157	Reducing Up To 10% by Day 28
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
pH	11-12
Specific Gravity	1.20-1.25

FEATURES & BENEFITS

- Integrated in the concrete mix at the plant
- No additional topical moisture vapor control required
- Reduces bleed through capillaries
- VOC compliant
- Warranted moisture vapor control

APPLICATIONS

- Interior slabs-on-ground
- Structural concrete below grade
- Slab on metal decks
- Normal and light weight structural concrete
- Structural concrete roof decks

MIXING INSTRUCTIONS

DuraForce(v-) can be added at the batch plant or at the project site. For best results, DuraForce(v-) 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(v-) 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(v-) 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(v-) 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(v-) is 12 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(v-) shall be added per project specifications or engineer’s instructions.

SUSTAINABILITY

DuraForce(v-), MVRA 900 by ISE Logik, is HPD v2.2 certified and may contribute up to 1 point on LEED projects.



As used herein, the term “DuraForce(v-)” shall refer to MVRA 900 by ISE Logik, and its subsidiaries.

ISE LOGIK warrants that its DuraForce(v-) (“product”), will reduce the permeability of structural concrete with mix designs between 0.30 and 0.54 water to total cementitious material ratio to not exceed an in-place permeability performance of 6.0 X 10 E-8 cm/s per ASTM D5084 during the concrete’s lifetime; exclusive of any cracking regardless of cause. ISE LOGIK warrants its DuraForce(v-) product to be free from manufacturing defects and to meet the technical properties of the current Technical Data Sheet if used as directed within shelf life and never allowed to freeze. This is only a short version of the DuraForce(v-) warranty. Full warranty information by request at (205) 620-9889 or sales@FullForceSolutions.us.