

DEVAP

Description

DarCole Evaporation Retarder is a **concentrated** water-based evaporation retardant for concrete flatwork.

DEVAP reduces surface moisture evaporation in rapid-drying conditions (high temperature, low humidity, wind, and direct sun). *DEVAP*, when applied over fresh concrete, creates a monomolecular film retarding the moisture loss from the concrete surface, allowing time for proper finishing and help in preventing plastic shrinkage of the concrete slab.

Advantages

- Concentrate allows lower transportation costs. Easily mixed in the field
- Retains needed surface moisture in concrete slabs
- Helps prevent plastic shrinkage cracks
- Reduces crusting and stickiness, allowing easier troweling of the concrete surface
- Promotes higher strength, more durable concrete by allowing lower slump concrete without the need for additional mix water to combat effects of evaporation
- Allows additional time, when applying surface hardeners, to properly finish and later cure the slab
- Allows easier finishing of polymer, fiber reinforced, or silica fume-modified concrete mortarmixes
- Effective for both inside and outside flatwork
- Will not inhibit bonding of coatings nor alter the final color of the concrete

Application

Agitate *DEVAP* prior to diluting with clean potable water. Add nine parts water to one part *DEVAP* in a clean container and thoroughly mix prior to using. On freshly placed concrete, *DEVAP* should be spray-applied immediately after the first floating operation. When used as an evaporation retardant during shake-on hardener applications, apply *DEVAP* after the hardener has been floated into the surface, but prior to initial set. Do not attempt to replace the lack of bleed water with *DEVAP*.

Coverage

DEVAP should be applied under normal weather conditions at the rate of 150-250 sq ft/gal. As drying conditions or wind become more severe, increase the amount of material used to 50-100 sq ft/gal.

Specifications

The use of a pigmented monomolecular evaporation retardant is required under rapid-drying conditions (high temperature, low humidity, wind and direct sun) to retain surface moisture and facilitate finishing.

Product must be used in strict accordance with the manufacturer's recommendation.

Applicable standard as recommended by ACI 302: "Evaporation Retardant/Monomolecular Film".

Packaging

Available in 5 gallon pails, and 1 gallon containers

Limitations

DEVAP is not a curing compound. Proper curing methods must be employed to assure quality concrete. *DEVAP* is formulated with fugitive dye to allow easy monitoring of application. **DO NOT USE *DEVAP* AS A FINISHING AID.** Do not work *DEVAP* into concrete surface. Do not apply *DEVAP* during final troweling operations as discoloration and delamination may occur. Do not allow *DEVAP* to freeze. Thawed material will *not* go back into solution. *DEVAP* is effective only when concrete is in the plastic state and must be used before finishing begins. Immediately wipe up any *DEVAP* spilled on hardened concrete.

Shelf Life: 12 months

Disclaimer

To the best of our knowledge, the information in this publication is reliable. Users should make their own tests to determine the suitability of these products for their own particular purposes. DarCole Products, Inc. makes no warranty of any kind, express or implied, including those of merchantable and fitness for purpose. The responsibility of DarCole Products, Inc. for claims arising out of breach of warranty, negligence, strict liability, or otherwise are limited to the purchase price of the materials.

