



#32-301/#32-316 Evaporation Retarder

DESCRIPTION

Evaporation Retarder is an evaporation retardant film for freshly placed concrete. This product retards the evaporation of moisture from fresh concrete surfaces by forming a monomolecular film on the surface. Evaporation Retarder is effective in combating rapid drying of the surface during adverse conditions including high temperatures, low humidity high winds, direct sunlight or interior work in heated conditions

USES

- Fresh concrete surfaces where the evaporation rate exceeds the rate of bleeding of the concrete
- Exterior placements during times of low humidity, high winds, direct sun or temperatures exceeding 75°F (24°C)
- Interior placements in heated areas or with low humidity or areas subjected to drafts
- Large dry shake placements where surface moisture must be retained for proper installation

ADVANTAGES

- Reduces surface moisture loss by approximately 80% in windy conditions and 40% in direct sunlight
- Will not interfere with the adhesion of subsequent curing & sealing compounds
- Reduces crusting, stickiness and sponginess which may cause uneven or poor surface texture
- Reduces plastic shrinkage cracking and wind crusting on flat-work
- Allows lower water content in concrete mix since Evaporation Retarder eliminates the need to add extra mixing water to the mix to compensate for rapid evaporation during finishing
- Keeps the surface plastic and finishable for a longer time

TECHNICAL DATA

Evaporation retarder meets the standards for a monomolecular film as recommended in the following American Concrete Institute publications:

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| ACI 302 | Guide for Concrete Floor and Slab Construction |
| ACI 308 | Standard Practice for Curing Concrete |
| ACI 305 | Recommended Practices for Hot Weather Concreting |
| ACI 345 | Standard Practice for Concrete Highway Bridge Deck Construction |

MIXING & ESTIMATING GUIDE

Evaporation retarder is supplied in a highly concentrated form and must be diluted prior to use. One (1) gallon of retarder should be mixed with nine (9) gallons of clean water to make ten (10) gallons of evaporation retarder. These ten gallons should cover from 2,000 to 4,000 square feet of fresh concrete. Under severe conditions, more than one application of this product may be required.

DIRECTIONS

Apply using a typical garden type sprayer or power spray equipment. A slotted of fan tip nozzle with a 0.010 - 0.018 tip is recommended. Evaporation retarder is applied as a fine mist which forms a temporary barrier on the surface of green concrete. The film is similar to a thin layer of cellophane. Evaporation Retarder applications should not be excessive or to the point of creating puddles.

It is best to apply Evaporation Retarder on the bleed water or at the time when bleed water would normally be present. Reapply when conditions warrant.

DIRECTIONS (CONTINUED)

Evaporation Retarder may be applied to fresh concrete prior to the application of a dry shake hardener and following the dry shake spreading procedure. Discontinue application as the dry shake hardener takes initial set.

Evaporation Retarder is a finishing aid. It does not replace the need for proper curing procedures.

CLEAN UP, STORAGE, CAUTIONS

- Clean tools and equipment with soap and water.
- Keep from freezing. Store tightly closed containers at 40°-75°F (4°-24°C) in dry area. Shelf life of properly stored material is one year from date of manufacture.
- Use with adequate ventilation. May cause skin and eye irritation. Do not take internally. Keep out of reach of children.
- All label precautions and the MSDS must be fully understood before using this product.

LIMITATIONS

- Evaporation Retarder is not a curing compound
- Do not apply Evaporation Retarder to hardened concrete as staining may occur. If spilled flush with water.
- Only apply Evaporation Retarder as a light mist. Do not allow material to puddle.

WARRANTY

This product is not intended for public use and is intended for use by licensed contractors and installers, experienced and trained in the use of these products. It is warranted to be of uniform quality, within manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the effects or results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.