**EVRT-C**

**CONCENTRATED EVAPORATION RETARDANT**

**DESCRIPTION:**
EVRT-C is a **CONCENTRATED** water-based evaporation retardant for concrete flatwork. EVRT-C reduces surface moisture evaporation in rapid-drying conditions (high temperature, low humidity, wind and direct sun).

**USES:**
EVRT-C, 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.

**BENEFITS:**
- 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 mortar mixes
- Effective for both inside and outside flatwork
- Will not inhibit bonding of coatings nor alter the final color of the concrete

**SPECIFICATIONS:**
**Evaporation Retardant:** 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.

Approved product: **RUSSTECH EVRT-C** or approved equal.

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

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

**APPLICATION:**
Agitate EVRT-C prior to diluting with clean potable water. Add nine parts water to one part EVRT-C in a clean container and thoroughly mix prior to using. On freshly placed concrete, EVRT-C should be spray-applied immediately after the first floating operation. When used as an evaporation retardant during shake-on hardener applications, apply EVRT-C 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 EVRT-C.**

**PACKAGING:**
- 5-gallon pails
- 1-gallon containers

**SHELF LIFE:**
12 months

**SAFETY EQUIPMENT:**
Rubber gloves, goggles and protective clothing are recommended when handling EVRT-C.
LIMITATIONS/PRECAUTIONS:
EVRT-C is not a curing compound. Proper curing methods must be employed to assure quality concrete. EVRT-C is formulated with a fugitive dye to allow easy monitoring of application. **Do not use EVRT-C as a finishing aid.** Do not work EVRT-C into concrete surface. Do not apply EVRT-C during final troweling operations as discoloration and delamination may occur. Keep out of reach of children. Do not take internally. If swallowed, call a physician. Do not allow EVRT-C to freeze. Thawed material will not go back into solution. EVRT-C is effective only when concrete is in the plastic state and must be used before finishing begins. Immediately wipe up any EVRT-C spilled on hardened concrete.

SURFACE EVAPORATION:
Listed below is a graph from ACI 305 R which calculates the rate of evaporation. The primary cause of shrinkage cracks in concrete is when the rate of evaporation approaches 0.20 lb./sq.ft./hr or higher. Wind velocity, relative humidity, air temperature, and concrete temperature can be plotted on this graph to predict when plastic shrinkage cracking will occur and when EVRT-C should be employed.

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