RUSSTECH©

EVRT

EVAPORATION RETARDANT

DESCRIPTION:

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

USES:

EVRT, 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:

- Ready to use formulation - no mixing
- 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

COVERAGE:

EVRT 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:

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

Approved product: **RUSSTECH EVRT** 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:

Thoroughly mix prior to using. On freshly placed concrete, **EVRT** should be spray-applied immediately after the first floating operation. When used as an evaporation retardant during shake-on hardener applications, apply **EVRT** 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.**

PACKAGING:

5-gallon pails
1-gallon containers

SHELF LIFE:

12 months

SAFETY EQUIPMENT:

Rubber gloves, goggles and protective clothing are recommended when handling **EVRT**.

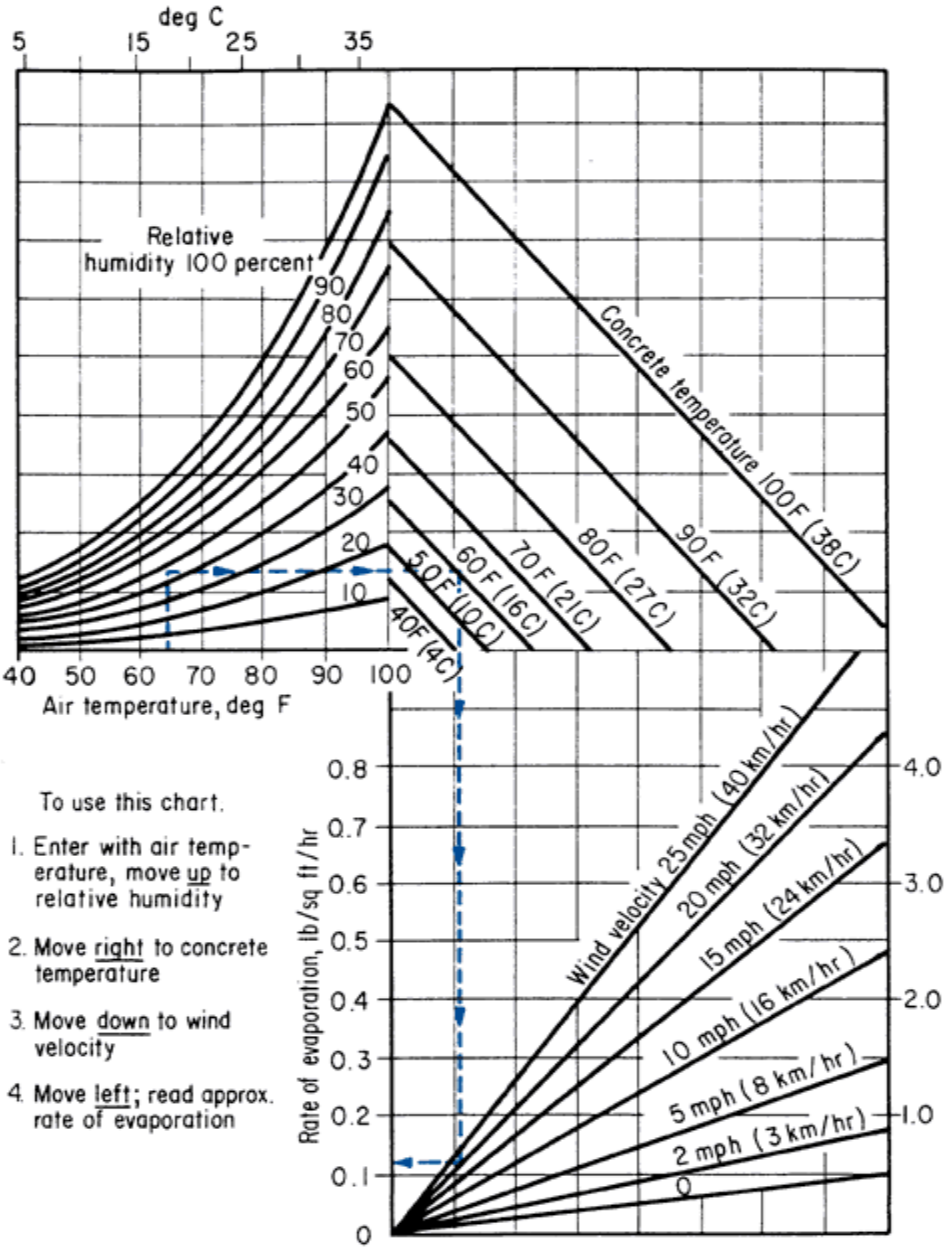
LIMITATIONS/PRECAUTIONS:

EVRT is not a curing compound. Proper curing methods must be employed to assure quality concrete. **EVRT** is formulated with a fugitive dye to allow easy monitoring of application. **DO NOT USE EVRT AS A FINISHING AID.**

Do not work **EVRT** into concrete surface. Do not apply **EVRT** 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** to freeze. Thawed material will *not* go back into solution. **EVRT** is effective only when concrete is in the plastic state and must be used before finishing begins. Immediately wipe up any s **EVRT** 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** should be employed.



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