



PREMIERE
CONCRETE
SOLUTIONS



BARRIER™

PRODUCT DATA

DESCRIPTION

Barrier is a water-based, VOC compliant spray-on evaporation reducer for fresh concrete surfaces. Barrier retards the loss of surface moisture by forming a continuous mono-molecular film over the concrete surface.

APPLICATIONS

To retard surface evaporation of plastic concrete exposed to rapid drying environments. Barrier is especially useful in hot, windy, low humidity situations where rapid surface evaporation can result in concrete surface defects such as; plastic shrinkage cracking, crusting, crazing, or dusting. Barrier also enhances the finishing characteristics of concrete flatwork.

FEATURES / BENEFITS

- Retards moisture loss and drying of plastic concrete surfaces.
- Enhances finishing procedures by providing increased lubrication.
- Retards the effects of low relative humidity and wind.
- Eliminates or reduces surface “crusting” and concrete sponginess.
- Helps prevent map cracking and plastic shrinkage.
- Promotes superior concrete surfaces.

SPECIFICATION COMPLIANCE

The use of a mono-molecular film to prevent rapid drying of fresh concrete is recommended in the following ACI documents: ACI 305R, “Hot Weather Concreting”; ACI 302.1R, “Guide for Concrete Floor and Slab Construction”; ACI 308, “Standard Practice for Curing Concrete”; and ACI 345R, “Guide for Concrete Highway Bridge Deck Construction”.

TECHNICAL NOTE

According to ACI 305, Hot Weather Concrete, plastic shrinkage cracking of concrete is probable whenever the evaporation rate exceeds 0.2 lbs./sq. ft./hr. (1.0 Kg/sq. m/hr.). Many combinations of air temperature, relative humidity, concrete temperature, and wind velocity can produce evaporation rate that exceed exceeds 0.2 lbs./sq. ft./hr. (1.0 Kg/sq. m/hr.). See evaporation chart.

PACKAGING

Barrier is supplied in 1-gal. (3.6 liter) jugs (4 jugs per case), 5-gal. (18.9 liter) pails, and 55-gal. (208 liter) drums.

LIMITATIONS

Barrier is not suitable for use as a surface retarder for producing exposed aggregate surfaces. Do not use Barrier as a curing compound.



PREMIERE CONCRETE SOLUTIONS
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DIRECTIONS

Dilution/Mixing: Barrier is packaged in a concentrated solution which requires a dilution rate of 1:9 (1 gallon Barrier to 9 gallons of water). Mix/agitate thoroughly. For larger quantities, add 5-gallons (18.9 liter) of Barrier concentrate to a clean 55-gal. (208 liter) drum, and then add 45 gal. (170 liter) of water and mix thoroughly.

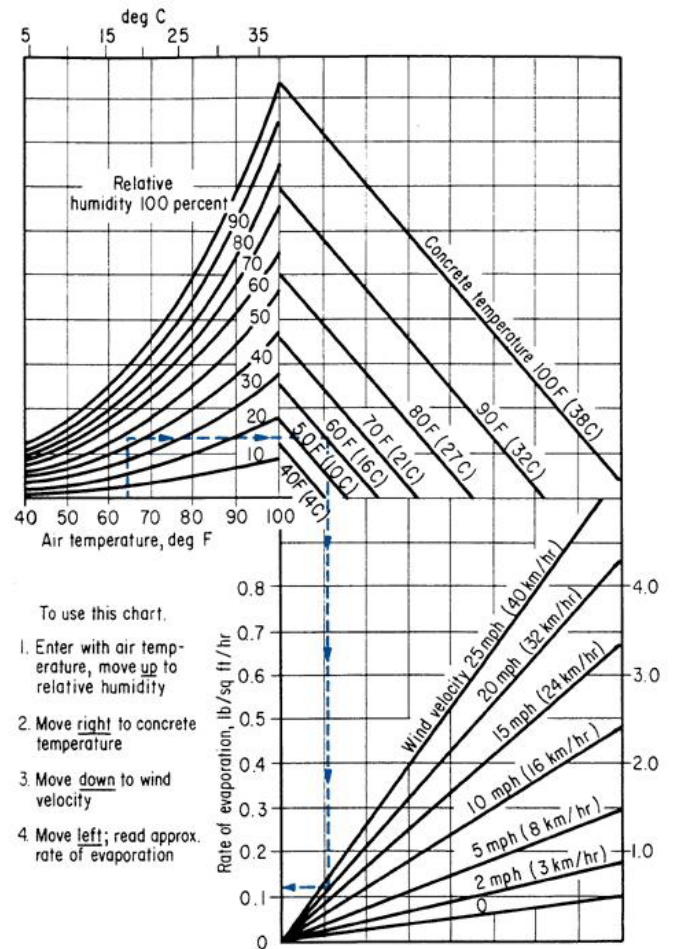
Application: Using a hand or power sprayer / fogger, apply Barrier uniformly over the surface of the plastic concrete until sheen appears. Apply immediately after screeding and/or between finishing operations (as needed). Coverage rate is 200 to 300 sq. ft./gal. (4.9 to 7.4 sq. m/liter). Barrier will not retard the setting characteristics of the concrete. Barrier may also be applied during finishing operations as a finishing aid.

STORAGE

Barrier should be stored in temperatures 40 degrees Fahrenheit or higher.



EVAPORATION CHART



This Product is formulated and labeled for Industrial and Commercial Use only. For best results and safest usage, user is specifically directed to consult the current material safety data sheet and package label for this product.

Premiere Concrete Solutions warrants its products to be free of manufacturing defects and that they will meet Premiere Concrete Solutions current published physical properties when applied in accordance with Premiere Concrete Solutions directions and tested in accordance with ASTM and Premiere Concrete Solutions standards. Premiere Concrete Solution makes no warranty or guarantee, express or implied, including warranties of fitness for a particular purpose or merchantability, respecting its products, and Premiere Concrete Solutions shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. In no case shall we be liable for consequential or special damages. Even if we have been advised of the possibility of such damages. The foregoing warranties are in lieu of all other warranties, guarantees, co-conditions and representations, either expressed or implied, whether arising under any statute. Common Law, usage or trade, course of dealing or otherwise, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith.