

## MONOFILM

Water based, moisture evaporation reducer for concrete. Ready to use and concentrate versions available.



### VOLATILE ORGANIC COMPOUND (VOC) REGULATORY COMPLIANCE

USEPA CARB-SCM SCAQMD LADCO, OTC UT-R307, CO MCAQD CT, MD, DE, D.C. CANADA

### MONOFILM RTU and Concentrate



### HOW IT WORKS

MONOFILM instantly forms a protective monomolecular layer across the surface of the concrete which effectively reduces surface moisture evaporation by up to 80%.

### APPLICATIONS

- ◆ Use where the concrete surface evaporation rate exceeds the concrete bleed rate, such as in direct sun light, low humidity or during hot and/or windy conditions.
- ◆ Use on all types of concrete flat work, including air entrained, low slump, superplastersized, latex modified and concrete containing pozzolans such as fly ash, blast furnace slag or silica fume.

### ADVANTAGES

- ◆ Reduces surface moisture evaporation by as much as 80 percent in wind and 40 percent in sunlight.
- ◆ Reduces wind crusting, plastic shrinkage cracking and the formation of moisture envelopes which result in surface spalls.
- ◆ Significantly improves the concrete surface strength, abrasion resistance and durability by holding in the critical mix water necessary to ensure proper cement hydration.
- ◆ MONOFILM's protective layer lasts as long as the concrete remains plastic. This allows the necessary amount of working time to achieve an acceptable finish, regardless of successive floating and troweling operations.
- ◆ More concrete can be effectively placed with less labor during adversely hot, dry and/or windy conditions without jeopardizing overall concrete quality.
- ◆ Does not interfere with the normal cement hydration process or subsequent application of floor sealers, paints, coatings or patching materials.
- ◆ Contains a highly visible fluorescent dye for easy, uniform application.
- ◆ Also available in a ready-to-use version.
- ◆ Green Engineered™ – better for health and the environment.
- ◆ Meets all federal and state VOC requirements.

### ▲ PRECAUTIONS ▲

- ◆ Do not use in place of a curing compound.
- ◆ Do not apply after the surface bleed water has evaporated from the concrete or during the final finishing operation.

- ◆ Do not apply without diluting. Proper dilution is one part MONOFILM to nine parts water. MONOFILM RTU requires no dilution.
- ◆ Do not apply to concrete if ambient air or concrete temperatures during concrete placement are less than 45° F (7° C).
- ◆ Protect from freezing. Allowing product to freeze can cause the container to rupture as well as separation of the active components, resulting in poor product performance. Product which is suspected of freezing should not be used.
- ◆ Verify that product is within the "USE BY" date stated on product packaging. Do not use expired product. The use of expired product may result in poor product performance or failure.

### USE INSTRUCTIONS

- ◆ Request current product literature, labels and safety data sheets from manufacturer and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions and construction have a major impact on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify that product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.
- ◆ MONOFILM MUST BE THOROUGHLY MIXED PRIOR TO EACH USE AND PRIOR TO DILUTING. When using 55-gallon (208 L) drums, best results are obtained if the product is mixed using Nox-Crete's DRUM AGITATOR. Recommended dilution ratio for MONOFILM is one part MONOFILM to nine parts water. MONOFILM RTU requires no dilution. Always remix prior to each use.
- ◆ Apply to freshly placed concrete immediately after screeding or after the first floating operation. Apply using a low-pressure handpump type sprayer such as Nox-Crete's PERFECT FORM & CONCRETE SPRAYER or IDEAL FORM & CONCRETE SPRAYER. Nox-Crete's PERFECT POWER SPRAYER is ideally suited to large scale applications.

MONOFILM

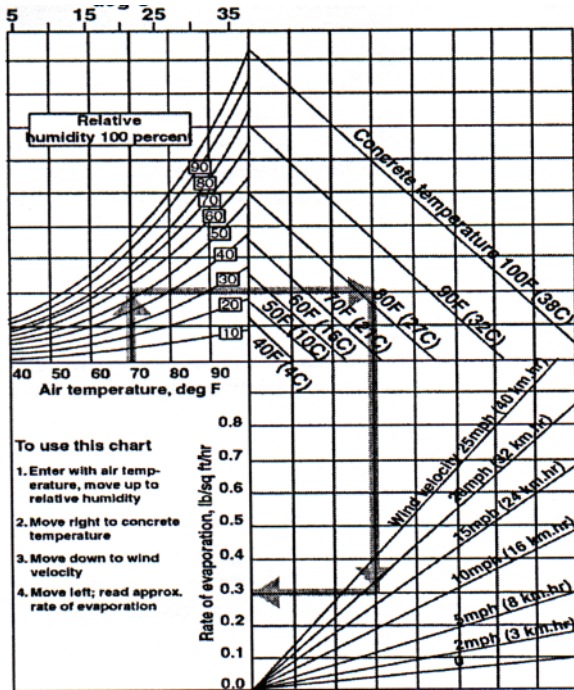
Surface Evaporation Reducer



chemical solutions to concrete problems

## COVERAGE RATES

- ◆ The typical coverage rate of MONOFILM (diluted 1:9) is 200-400 sf/gal (5-10 sm/L).
- ◆ Reapply additional MONOFILM as required to control rapid surface water evaporation. The American Concrete Institute (ACI) Committee 305 recommends the application of an evaporation reducer when the surface water evaporation rate exceeds 0.2 lbs/sf/hour (1.0 kg/sm/hour). Please refer to the chart below.



Effect of concrete and air temperatures, relative humidity and wind velocity on the rate of evaporation of surface moisture from concrete. This chart provides a graphic method of estimating the loss of surface moisture for various weather conditions. To use the chart, follow the four steps outlined above. If the rate of evaporation approaches 0.2 lbs/sf/hr (1.0 kg/sm/hr), precautions against plastic shrinkage cracking are necessary. (Ierch 1957, ACI 305).

## TECHNICAL DATA

|               |                              |
|---------------|------------------------------|
| Density       | 8.4 lbs. / gal. (1.0 kg / L) |
| Color         | Fluorescent Yellow           |
| Odor          | None                         |
| Flash Point   | None                         |
| Water Soluble | Yes                          |
| VOC           | <40.0 g / L                  |

## PACKAGING

MONOFILM CONCENTRATE is available in 1 gal. (3.8 L) jugs, 5 gal (19L) pails and 55 gal (208 L) drums. MONOFILM RTU is available in 5 gal (19 L) pails and 55 gal (208 L) drums.

## SHELF LIFE

Shelf life is one year. Use before the "USE BY" date stated on product packaging.

## HANDLING/STORAGE

Store in a dry location within a temperature range between 40° F (4° C) and 100° F (38° C).

## AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, NOX-CRETE INC. maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, call 800-669-2738 or 402-341-2080.

## LIMITED WARRANTY

### NOTICE-READ CAREFULLY

### CONDITIONS OF SALE

NOX-CRETE offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may only be varied by written agreement of a duly authorized corporate officer of NOX-CRETE. No other representative of or for NOX-CRETE is authorized to grant any warranty or to waive limitation of liability set forth below.

### WARRANTY LIMITATION

NOX-CRETE warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, NOX-CRETE will replace the defective product with new product without charge to the purchaser.

NOX-CRETE makes NO OTHER WARRANTY, either express or implied, concerning this product. There is NO WARRANTY OF MERCHANTABILITY. In no case shall NOX-CRETE be liable for special, indirect or consequential damages resulting from the use or handling of the product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which damages are claimed.

### INHERENT RISKS

NOX-CRETE MAKES NO WARRANTY WITH RESPECT TO THE PERFORMANCE OF THE PRODUCT AFTER IT IS APPLIED BY THE PURCHASER, AND PURCHASER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OR APPLICATION OF THE PRODUCT.