

GUIDE SPECIFICATION FOR EVAPRE™: EVAPORATION RETARDANT

SECTION 03 00 00

CONCRETE

Specifier Notes: This guide specification is written according to the Construction Specifications Canada (CSC) format. The section must be carefully reviewed and edited by the architect or engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: W. R. MEADOWS EVAPRE evaporation retardant is an economical, high-quality, water-based compound. It is specifically designed to form a thin monomolecular film to reduce rapid moisture loss from concrete surfaces prior to curing. EVAPRE provides a significant aid in producing high-quality concrete flatwork. Rapid evaporation of water is retarded, slab surface conditions are normalized, and workers can adhere more closely to established finishing schedules. EVAPRE is also VOC-compliant.

EVAPRE significantly reduces plastic shrinkage and cracking, wind crusting, stickiness, and sponginess which often cause poor and uneven surface texture. These conditions result when the hydration is more rapid than the movement of bleed water to the surface. EVAPRE effectively combats and minimizes the effects of rapid drying conditions, such as low humidity, low dew point, high winds, direct sunlight, hot weather, heated concrete, or placement of concrete in a heated enclosure or interior area during cold weather. The protective film shield disappears as soon as the concrete is no longer plastic. EVAPRE is ideal for use as an evaporation retardant for concrete surfaces where the evaporation rate exceeds the rate of bleeding. It can also be used with condensed silica fume concrete, concrete containing fly ash, and most other cementitious products. When applying surface hardeners, EVAPRE can be used after screeding and after the first floating operation, if necessary.

- 1 General
- 1.1 SECTION INCLUDES
 - .1 Surface preparation.
 - .2 Application of evaporation retardant for concrete.
- 1.2 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- .1 Section 03 30 00 - Cast-in-Place Concrete.
 - .2 Section 03 35 00 - Concrete Finishing.
- 1.3 REFERENCES
 - .1 ACI 305R-91 - Recommended Practice for Hot Weather Concreting.

1.4 SUBMITTALS

- .1 Comply with Section 01 33 00 - Submittal Procedures.
- .2 Submit manufacturer's product data and application instructions.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- .2 Store materials in a clean, dry area in accordance with manufacturer's instructions.
- .3 Avoid direct contact with this product as it may cause irritation of the eyes and/or skin.
- .4 Protect materials during handling and application to prevent damage or contamination.
- .5 Do not use evaporation retardant as a finishing aid for cementitious materials.

1.6 ENVIRONMENTAL REQUIREMENTS

- .1 Do not apply evaporation retardant if the temperature of the concrete is below 40° F (4° C).

2 Products

2.1 MANUFACTURER

- .1 W. R. MEADOWS of CANADA, 70 Hannant Court, Milton, Ontario, Canada L9T 5C1. (800) 563-3618. Fax (905) 878-4125. Web Site www.wrmeadows.com.

2.2 MATERIALS

- .1 Performance-Based Specification: Evaporation retardant shall be a high-quality, water-based compound that is specifically designed to form a thin monomolecular film to reduce rapid moisture loss from the concrete surfaces prior to curing.
- .2 Proprietary-Based Specification: EVAPRE evaporation retardant by W. R. MEADOWS.

3 Execution

3.1 APPLICATION

- .1 Protect adjacent surfaces not designated to receive evaporation retardant.
- .2 Apply evaporation retardant in accordance with manufacturer's instructions.
- .3 Mix evaporation retardant at a ratio of one (1) part to nine (9) parts of water.
- .4 Agitate evaporation retardant before mixing with water.
- .5 Agitate the diluted solution, again, before applying.
- .6 Apply evaporation retardant with a commercial sprayer using a spray tip that produces a flow rate of 1/2 gallon per minute.

- .7 Apply diluted solution immediately after screeding and/or between finishing operations, as needed.
- .8 Do not allow puddling. If puddling occurs, wipe up immediately and rinse with water.
- .9 Clean all equipment immediately after use with soap and water.
- .10 Finish concrete surface as required.
- .11 Cure concrete after bleed water or excess surface water has dissipated.

END OF SECTION