



DATA SHEET NO. 3300-332

EVAPRE™ Evaporation Retardant

DESCRIPTION

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 the 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 causes 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.

USE

EVAPRE is ideal for use as an evaporation retardant for concrete surfaces where the evaporation rate exceeds the rate of bleeding. EVAPRE can be used with the MEADOW-PATCH® and MEADOW-CRETE® lines of repair mortars by W. R. MEADOWS. 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.

NOTE:

EVAPRE is specifically designed to fight off the destructive effects of early rapid evaporative moisture loss. Early evaporative moisture loss is addressed in ACI Committee 305R-91, entitled "Recommended Practice for Hot Weather Concreting." This report contains a chart on page five that depicts the effect of concrete and air temperatures, relative humidity, and wind velocity on the rate of evaporation of surface moisture from concrete. It provides a graphic method for estimating the loss of surface moisture for various weather conditions.

FEATURES/BENEFITS

- Significantly reduces plastic shrinkage and cracking caused by evaporation in low humidity, high temperatures, and high winds.
- Allows use of lower slump and lower water: cement ratio.
- Provides smooth and durable concrete flatwork.
- Reduces wind crusting, stickiness, and sponginess, which often cause poor and uneven surface texture.
- Allows finishing crews to adhere to established schedules.
- Reduces overall cost because timing of finishing operations is less critical.
- VOC-compliant.
- Helps minimize surface cracking due to early water loss of silica fume concrete.
- Available in exclusive, easy-to-use, 1.33 litre (45 oz.) containers.

PACKAGING

1.33 Litre (45 Oz.) Containers
3.8 Litre (1 U.S. Gal.) Units
18.9 Litre (5 U.S. Gal.) Pails
208 Litre (55 U.S. Gal.) Drums

Continued over

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COVERAGE

3.8 L (1 U.S. gal.) of EVAPRE mixed with 34.2 L (9 U.S. gal.) of water will cover 50 - 100 m² (2,000 - 4,000 ft.²). Quantity needed will increase if additional coats are required. 1.33 L (45 oz.) container – pour into a 13.2 L (3.5 gal.) sprayer, add water, and it is ready to use.

APPLICATION

STEP 1 - For the majority of applications, EVAPRE should be mixed at a ratio of one (1) part EVAPRE to nine (9) parts of water. Agitate EVAPRE before mixing with water. Agitate the diluted solution, again, before applying. **NOTE:** EVAPRE is available in an easy-to-use, exclusive 1.33 L (45 oz.) container. Just pour into a 13.2 L (3.5 gal.) sprayer, add water to fill, and to go work.

STEP 2 - Apply EVAPRE with a commercial sprayer, such as a Chapin 1949. Use a spray nozzle that produces a flow rate of 1.9 L (0.5 U.S. gal.) per minute.

STEP 3 - The EVAPRE diluted solution should be applied immediately after screeding and/or between finishing operations, as needed. Application is simplified by the fugitive pigment, which will disappear completely upon drying. Do not allow puddling. If puddling occurs, wipe up immediately and rinse with water.

STEP 4 - Clean all equipment immediately after use with soap and water.

STEP 5 - Finish concrete surface as required.

STEP 6 - Cure concrete after bleed water or excess surface water has dissipated. The use of EVAPRE does not negate the need for a quality concrete curing or curing and sealing compound from W. R. MEADOWS.

NOTE ... The residue remaining on the surface after finishing will not impair bonding or alter colour. The protective shield usually lasts as long as the concrete is plastic. Therefore, all concrete surfaces must be properly cured as well.

PRECAUTIONS

Keep from freezing. EVAPRE should not be over-applied or worked excessively into the concrete surface during finishing operations. EVAPRE should not be used to re-temper the concrete. EVAPRE is not a curing agent.

W. R. MEADOWS is not responsible for compatibility or results when EVAPRE is used with other manufacturer's products.

Read and follow application information and use in accordance with the health and safety information shown on the container label. Refer to Material Safety Data Sheets for complete health and safety information.

MASTERFORMAT NUMBER AND TITLE

03 00 00 - Concrete

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 4.2: Low-Emitting Materials: Paints & Coatings
- IEQ Credit 4.3: Low-Emitting Materials: Flooring
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For most recent data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.

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