

PRODUCT DATA

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Concrete
Curing**CONFILM®**

Evaporation reducer

Description

Confilm® evaporation reducer helps produce high-quality concrete flatwork and reduces surface-moisture evaporation. It is especially effective in rapid-drying conditions, such as high concrete-surface or ambient temperatures, low humidity, high winds, direct sunlight, or work in heated interiors during cold weather.

Yield

One gallon (3.8 L) of Confilm® mixed with nine gallons (34.1 L) of water yields 10 gallons (37.9 L) of sprayable solution. This diluted amount of Confilm® (1 to 9) should cover 2,000 – 4,000 ft² (186 – 372 m²) of fresh concrete.

If more than one application is being applied, e.g., in adverse drying conditions, the required quantity will increase accordingly.

Packaging

1 gallon (3.8 L) cans

5 gallon (18.9 L) pails

55 gallon (208 L) drums

Shelf Life

1 year when properly stored

Storage

Store in unopened containers in a clean, dry area between 40 and 90° F (4 and 32° C). Keep from freezing.

Features

- Does not affect the cement hydration process
- Eliminates or reduces crusting, stickiness, and underlying sponginess
- Allows lower slump and lower water content in concrete
- Reduces surface moisture evaporation approximately 80% in wind and approximately 40% in sunlight
- Facilitates the use of air-entrained concrete
- Surfaces remain plastic

Benefits

Does not alter concrete strength (early and ultimate), abrasion resistance, and durability

Helps prevent unevenness and poor surface texture

Facilitates proper hydration of high-strength mixes

Reduces plastic shrinkage cracking and wind crusting

Makes air entrainment possible in rapid-drying conditions

Allows for longer working time in hot, dry, or windy conditions; timing of finishing is less critical, reducing overall cost

Where to Use

APPLICATION

- Concrete surfaces where the evaporation rate exceeds the bleed rate
- Air-entrained and non-air-entrained concrete
- Silica-fume concrete
- Concrete containing fly ash

LOCATION

- Horizontal and vertical surfaces
- Interior or exterior

3. Confilm® forms a monomolecular film when sprayed onto the concrete surface immediately after screeding or between finishing operations (as needed). The protective shield of Confilm® usually lasts as long as the concrete remains plastic, despite succeeding floating operations. When applying surface hardeners, use Confilm® after screeding when applying surface hardeners using the delayed application method. When applying surface hardeners using the early application method, apply only after the specified quantity of dry shake has been incorporated into the concrete by floating and after the first floating operation, if necessary.

4. Treated surfaces are easily distinguished from untreated surfaces because of the greenish-yellow color of the film in the presence of moisture and light. The fluorescent tint of the film disappears completely upon drying. The residue remaining on the surface of hardened concrete does not impair bonding or alter color.

How to Apply

Application

1. Agitate Confilm® before mixing with water. Depending on the application, mix Confilm® at a ratio of up to 1 part Confilm® concentrate to 9 parts water. Re-agitate mixed materials before applying.
2. Apply with a constant-pressure or industrial sprayer.



For Best Performance

- Do not apply Confilm® as a final finishing aid. Do not work Confilm® into the concrete surface.
- Confilm® evaporation reducer is not a curing agent. Concrete treated with this product must still be cured.
- BASF is not responsible for compatibility or results when Confilm® evaporation reducer is used with other manufacturers' products.
- Confilm® reduces evaporation only while concrete is plastic. It is not a substitute for early curing of hardened concrete, nor does it alter the effectiveness of membrane curing compounds.
- Protect Confilm® from freezing. Extreme cold may cause segregation, from which the product cannot be reconstituted.
- Do not allow any spills or residue of Confilm® concentrate to dry on the surface of hardened concrete. Wipe it up immediately, then rinse the surface with water. If the concentrate residue dries on hardened concrete, a reddish-brown stain may appear.
- For a detailed technical discussion about the action of monomolecular films typified by Confilm®, refer to the Journal of the American Concrete Institute, Volume 62, pp. 977 - 985.
- The following ACI documents recommend monomolecular films to prevent rapid drying of fresh concrete: ACI 302.1R, "Guide for Concrete Floor and Slab Construction"; ACI 305R, "Hot Weather Concreting"; ACI 308, "Standard Practice for Curing Concrete"; and ACI 345R, "Guide for Concrete Highway Bridge Deck Construction."
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

CONFILM®

Caution

Confilm® contains no hazardous chemicals as defined by 29 CFR 1910.1200 or WHMIS.

Risks

May cause skin, eye or respiratory irritation.
Ingestion may cause irritation.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

Proposition 65

This product contains material listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

VOC Content

0.1 lbs/gal or 10 g/L.

For medical emergencies only, call ChemTrec (1-800-424-9300).

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