

Chryso® ProFilm 19

Evaporation Reducing Agent

DESCRIPTION

Chryso® ProFilm 19 is a water-based, VOC-compliant spray-on liquid evaporation reducer and finishing aid for application over fresh concrete surfaces. It retards the loss of surface moisture without affecting the cement hydration process by forming a continuous

mono-molecular film over the concrete surface. Designed to enhance the finishing characteristics of concrete flatwork, it will not affect the concrete's color.

ADVANTAGES

- Retards moisture loss and drying of freshly placed concrete surfaces.
- Speeds up finishing procedures by providing adequate lubrication & extended finishability window without affecting concrete's color.
- Eliminates or reduces surface "crusting" and concrete sponginess.
- Helps prevent map cracking and plastic shrinkage
- Enhances concrete surface texture and durability

FIELDS OF APPLICATION

- Horizontal Concrete Pours
- Industrial Floors
- Roads
- Bridge Decks
- Slabs
- Patios
- Driveways
- Sidewalks

Method of Use

Dosage

- Dilute Chryso® ProFilm 19 concentrate at the ratio of 1 part Chryso® ProFilm 19 for 9 parts of water. Mix/agitate thoroughly to uniformly distribute the solids in the mixture.
- For large quantities, use a clean 55 gallons (208 liters) drum to blend 5 gallons (18.9 liters) of Chryso® ProFilm 19 concentrate and 45 gallons (170 liters) of water. Mix thoroughly till uniform blend is complete.
- Coverage rate is 200 to 300 sq. ft./gal. (4.9 to 7.4 sq. m/liter). Under severe drying conditions, reapply as needed.

Additional Usage Recommendations

- Recommended any time the evaporation rate exceeds 0.2 lbs./sq. ft./hr. (1.0 Kg/sq. m/hr.) or when the slab begins to crust.
- Product may also be spray applied during finishing operations as a finishing aid since it will not retard the setting characteristics of the concrete. Normal timing of subsequent finishing operations should be maintained.
- Especially useful in hot, windy, low humidity situations where rapid surface evaporation can result in plastic shrinkage cracking, crusting, crazing, dusting and poor quality of the concrete surface.
- Recommended for all concrete mixes where superior finish and reduced water evaporation are desirable.

Implementation

- Using a hand or power sprayer, apply product uniformly over the surface of the plastic concrete.
- Product contains a fugitive dye to allow easy monitoring of application.
- Product forms a mono-molecular film the over the plastic concrete surface when applied immediately after screeding and/or between finishing operations (as needed).

The information contained in this technical data sheet is given to the best of our knowledge and the result from extensive testing - which were conducted in order to remain as objective as possible. However, it cannot, in any case, be considered as a warranty involving our liability in case of misuse or any different use of our products, other than those from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. www.chryso.com

CHRYSO Inc. - 3958 Ruger Dr • Royse City • TX 75189 & PO Box 190 • Rockwall • TX 75087 Tel.: +1 (972) 772 6010

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Chryso
Concrete
Solutions

07/29/2025

Performances

Air Temp	Relative Humidity	Concrete Temp.	Wind Velocity	Evaporation Rate
90°F (32°C)	30%	70°F (21°C)	25 mph (40 km/hr)	0.20 lb/sq. ft/hr. (1.0 kg/sq. m/hr)
72°F (22°C)	50%	80°F (27°C)	25 mph (40 km/hr)	0.38 lb/sq. ft/hr. (1.9 kg/sq. m/hr)
85°F (29°C)	50%	90°F (32°C)	10 mph (16 km/hr)	0.20 lb/sq. ft/hr. (1.0 kg/sq. m/hr)
60°F (16°C)	20%	80°F (27°C)	25 mph (40 km/hr)	0.50 lb/sq. ft/hr. (2.4 kg/sq. m/hr)
65°F (18°C)	20%	80°F (27°C)	15 mph (24 km/hr)	0.35 lb/sq. ft/hr. (1.7 kg/sq. m/hr)
90°F (32°C)	60%	90°F (32°C)	15 mph (24 km/hr)	0.25 lb/sq. ft/hr. (1.2 kg/sq. m/hr)
45°F (7°C)	10%	90°F (32°C)	5 mph (8 km/hr)	0.20 lb/sq. ft/hr. (1.0 kg/sq. m/hr)

CHARACTERISTICS

Product Nature	Liquid
Shelf life	9 months
Cl ⁻ ions content	< 0,100 %
Specific gravity (25°C)	1,000 ± 0,020

CHRYSO® ProFilm 19 does not contain any purposely added calcium chloride or other chloride based components.

PACKAGING

- 210 L (55 Gallons) Drum
- 19L Pail (5 gallons)

PRECAUTIONS

- Product may freeze at temperatures below 40° F (5° C).
- If product freezes, it will not go back into solution and needs to be disposed of.
- Agitation before use is recommended if the diluted product is to be stored for an extended period of time.
- Product is not considered dangerous to handle. Please refer to the material safety data sheet for additional information.

Limitations

- Chryso® ProFilm 19 is not suitable for use as a surface retarder for producing exposed aggregate surfaces. Chryso® ProFilm 19 is not a curing compound. (see Chryso® Cure range documentation for concrete curing solutions).

SAFETY

Prior to any use, please read carefully the Safety Data Sheet.