TECHNICAL DATA SHEET

IntraFilm Concentrate

Reactive Colloidal Silica Evaporation Retarder/Finishing Aid & Densifier

DESCRIPTION

IntraFilm Concentrate is a reactive colloidal silica evaporation retarder/finishing aid and densifier that reduces early moisture loss, lubricates freshly placed concrete for faster and easier finishing, and prolongs workability in adverse conditions such as high temperatures, high wind or low humidity.

The reactive colloidal silica in IntraFilm reacts during hydration to create concrete slabs with higher density, improved durability and lower maintenance requirements.

USES

- Warehouse and industrial flooring
- Parking lots and parking structures
- Sidewalks and patios
- Public buildings, lobbies and office spaces
- Education and healthcare buildings
- Stadiums, event and congregation spaces
- Colored concrete
- Aids shake-on hardeners
- Low-bleed concrete, such as microsilica mixes or concrete with no air entrainment

BENEFITS

- Increases "cream" and workability of the concrete without impacting the water-cement ratio
- Lubricates concrete surfaces and reduces trowel and equipment wear
- Reduces early moisture loss and prolongs workability in hot, humid, dry and windy conditions
- Improved impact and abrasion resistance
- Helps retain moisture in the slab for optimal curing and reduces curling and shrinkage
- Minimizes checking, crazing and scaling
- Extremely low VOC content (<50 g/L)
- Reduced potential for alkali-silica reaction (ASR)
- Facilitates easier finishing with silica fume and air-entrained concrete
- Reduces efflorescence and dusting for lower maintenance requirements over the life of the slab

MIXING INSTRUCTIONS

The material is supplied as a concentrate to be diluted with water. Contents should be stirred or shaken vigorously prior to use to eliminate any settling that may occur during storage or shipping. Dilute by mixing 1 part concentrate to 4 parts clean, potable water and stir or shake until the mixture is uniform. Pour IntraFilm directly into the sprayer.

APPLICATION

IntraFilm is designed for use after screeding and during the bull floating and troweling stages of concrete placement.

Use a clean, hand-pump, tank-type sprayer with a low-pressure tip to distribute the product evenly. Lightly mist IntraFilm over the entire surface to be treated and immediately follow with screeding, bull floating, troweling or other finishing procedures.

Re-apply IntraFilm to any localized areas where the concrete has begun to dry prematurely.

1511 Baltimore Ave, Suite 600
Kansas City, MO 64108

www.SpecChem.com
816-968-5600

COVERAGE

Use	sq ft/gal	m^2/L
Evaporation reducer/finishing aid	500–1,000	12.3–24.5
Concrete densifier	250–500	6.1–12.3

Coverage based on RTU (diluted) formula. Rates are a guideline only; surface texture, porosity and weather conditions will determine actual coverage.

TECHNICAL DATA INFORMATION

Composition: A colloidal silica-based mineral dispersion in water

Viscosity at 77 °F (25 °C) ..... 80–85 KU

Mix ratio ..... 1:4 (concentrate:water)

VOC content ..... < 50 g/L

A.I.M. category ..... Not regulated

CLEANING

Clean tools and spills with soap and warm water before the material dries.

PACKAGING

55-gallon drums (208.2 L)

5-gallon pails (18.9 L)

1-gallon jugs, 4 per case (3.8 L)

SHELF LIFE

Shelf life of IntraFilm Concentrate in the original, tightly closed container is two years from the date of manufacture.

LIMITATIONS

- KEEP FROM FREEZING.
- IntraFilm does not replace curing procedures.
- Do not store below 40 °F (4 °C) or above 80 °F (26.7 °C).
- Do not over-apply; build-up can cause concrete hazing/cloudiness.
- Do not exceed 250 sq ft/gal (6.1 m^2/L) when applying multiple times or in combination with other colloidal silica treatments.

PRECAUTIONS

DO NOT CUT OR WELD CONTAINER

INDUSTRIAL USE ONLY

PROTECT FROM FREEZING

Keep out of reach of children. Do not take internally. Avoid prolonged contact with skin. If swallowed, call a physician. Wear rubber gloves, goggles and protective clothing. Additional precautions, safety information and first aid are contained in the Safety Data Sheet (SDS).

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem 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, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

Revised 09/30/26

1511 Baltimore Ave, Suite 600
Kansas City, MO 64108

www.SpecChem.com
816-968-5600