TECHNICAL DATA SHEET

Chryso Concrete Solutions

02/17/2025

V-MAR® F100

Viscosity Modifying Admixture

DESCRIPTION

V-MAR® F100 is a high-performance, rheology-modifying admixture designed to enhance the lubricity of concrete, enabling increased productivity and superior surface texture.

It improves workability, allowing concrete to flow more smoothly during placement while achieving a high-quality finish with a consistent and refined surface.

ADVANTAGES

- Enhances concrete rheological properties for improved workability
- Produces cohesive concrete mixes without stickiness
- Facilitates efficient concrete extrusion
- Improves concrete surface appearance
- Accelerates concrete discharge rates

FIELDS OF APPLICATION

- All Cement Types
- Precast Concrete
- Post Tensioned & Prestressed Concrete
- Concrete Pipe
- Concrete Extrusion
- Concrete Paving
- Slip Formed Concrete
- Roller-Compacted Concrete

Method of Use

Dosage

- V-MAR® F100 dosage rates can vary with the type of application. Typical addition rates range between 3 to 12 fl oz/cwt (195–780 mL/100 kg) of cementitious material.
- Optimal addition rates will depend on mix design, cementitious content, aggregate gradations and application.
- Dosage rates may vary when used in conjunction with other CHRYSO® admixtures.
- Should conditions require using more than the recommended addition rates, please consult your CHRYSO® representative.

Implementation

- In general, it is recommended that V-MAR® F100 be added early in the batching sequence for optimum performance.
- Different sequencing may be used if local testing shows better performance.
- Please see Technical Bulletin TB-0110, *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations.
- Pretesting of the concrete mix should be performed before use and as conditions and materials change in order to assure compatibility with other admixtures, and to optimize dosage rates, addition times in the batch sequencing, and concrete performance.

Equipment

- A complete line of accurate, automatic dispensing equipment is available.

Complimentary Products

- V-MAR® F100 is compatible with most CHRYSO® admixtures as long as they are added separately to the concrete mix.
- For concrete that requires air entrainment, the use of an ASTM C260 air-entraining agent is recommended to provide suitable air void parameters for freeze-thaw resistance.

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Performances

- Enhances productivity with higher throughput.
- Enables concrete to flow more easily and quickly through machinery.
- Improves paste consistency for better creaminess and finishability.
- Promotes concrete consolidation with reduced vibration effort.
- Increases water tolerance, making concrete less sensitive to typical moisture variations during manufacturing.
- Supports the use of angular aggregates and manufactured sands in concrete mixes.
- Delivers finishes with significantly fewer surface defects.
- Reduces cement requirements for surface closure, lowering overall material costs.

CHARACTERISTICS

Product Nature	Liquid
Color	Brown
Shelf life	12 months
Cl^- Ions content	≤ 0,100 %
Specific gravity (25°C) in g/ml	1,008
pH (25°C)	5,30

PRECAUTIONS

- Product will begin to freeze at approximately 28°F (-2°C), but will return to full functionality after thawing and thorough mechanical agitation.
- Do not use pressurized air for agitation.

SAFETY

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

PACKAGING

- Bulk
- 210 L (55 Gallons) Drum
- 1000L Tote (275 gallons)

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