TECHNICAL DATA SHEET

Chryso Concrete Solutions

07/31/2025

Nulair® 50

Air Detraining Admixture

DESCRIPTION

Nulair® 50 is an air-detraining admixture designed to reduce plastic air content in concrete, improving unit weight, compressive strength, and concrete acceptance rates. It is ideal for ready-mix and precast concrete applications requiring minimized air content. This product features a chloride-free formulation, making it well-suited for reinforced concrete and projects with chloride restrictions.

ADVANTAGES

- Reduces plastic air in concrete
- Increases unit weight of concrete
- Enhances compressive strength
- Minimizes potential for rejected concrete loads
- Supports performance consistency across variable job conditions

FIELDS OF APPLICATION

- Ready-Mix Concrete
- Precast Concrete
- Interior Flatwork
- Heavyweight Concrete
- Architectural Concrete
- Polished, Exposed Aggregate Concrete

Method of Use

Dosage

- Dosage rates vary based on cement type, mix design, aggregate properties, environmental conditions, and project requirements.
- The typical dosage range is 0.5–6.0 fl oz/100 lbs (30–100 mL/400 kg) of cementitious material.
- Pretesting should be performed to determine the optimal dosage rate for specific mix designs and performance goals.

Implementation

- It is recommended that the product be added near the end of the batch sequence for optimum performance. Different sequencing may be used if local testing shows better performance.
- Please see Admixture Dispenser Discharge Line Location & Sequencing for Concrete Batching Operations for more information on product implementation.
- 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

- This product can be automatically dispensed using a complete line of accurate and reliable dispensing equipment designed for seamless integration into concrete batching systems. Typically, it is hand-dosed at the job site.

Complimentary Products

- Nulair® 50 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.
- Pretesting is recommended to verify compatibility with all mix components and ensure desired performance outcomes.
- Consult your Chryso® representative for guidance on product combinations & compatibility.

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Performances

- Decreases plastic air content in non-air-entrained concrete
- Improves compressive strength by increasing concrete density
- Reduces air voids that can compromise structural integrity
- Facilitates acceptance of concrete by meeting air content specifications
- Optimizes yield and material usage through higher unit weight

CHARACTERISTICS

Product Nature	Liquid
Color	Colourless to light yellow
Shelf life	12 months
Cl^- Ions content	≤ 0,100 %
Specific gravity (25°C)	1,002 ± 0,010
pH (25°C)	5,00 ± 1,00
Freezing Point	32 °F

PACKAGING

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

PRECAUTIONS

- Avoid prolonged exposure to temperatures below 32°F (0°C), as extreme conditions may affect product performance.
- If the product is exposed to freezing temperatures, gently thaw and agitate thoroughly before use.
- Do not use direct heat to accelerate thawing.
- Do not use pressurized air for agitation.

SAFETY

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

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