

Chryso® Mira 110

Mid-Range Water Reducing Admixture

DESCRIPTION

Chryso® Mira 110 is a mid-range and high-range water-reducing admixture designed to enhance strength development, optimize set times in cooler conditions or when using pozzolans, and improve workability. It is ideal for commercial and residential flatwork, formed concrete, and precast applications requiring smooth surface

finishes. This product features a superior dispersion capability, making it well-suited for mixes with demanding workability and strength requirements.

Meets or exceeds the requirements of ASTM C494 Types A & F

ADVANTAGES

- Improves workability and finishability
- Enhances strength development
- Optimizes set times with pozzolans or at lower ambient temperatures
- Supports performance in both normal and lightweight concrete
- Facilitates troweling by hand or machine

FIELDS OF APPLICATION

- All Cement Types
- Ready-Mix Concrete
- Precast Concrete
- Lightweight Concrete
- Concrete Paving
- Manufactured Concrete Products

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:
 - Mid-range water reducer: 6–9 fl oz per 100 lbs (390–585 mL per 100 kg) of cementitious material
 - High-range water reducer: 10–15 fl oz per 100 lbs (650–1000 mL per 100 kg) of cementitious material
- If conditions require using more than the recommended addition rates, please consult your Chryso® representative.

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.

Complimentary Products

- Chryso® Mira 110 is compatible with most Chryso® admixtures as long as they are added separately to the concrete mix.
- This product is not compatible with admixtures containing naphthalene-based or melamine-based ingredients, as these may negatively

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.

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impact performance.

- 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

Performances

- Provides neutral set times at low temperatures and with pozzolans
- Increases early and ultimate compressive strength
- Enhances dispersion of cement particles for improved concrete rheology
- Maintains consistent performance across a wide slump range (4–9 in.)
- Enables smooth, close-tolerance surfaces through superior trowelability

CHARACTERISTICS

Product Nature	Liquid
Color	Colourless to light yellow
Shelf life	9 months
Cl⁻ Ions content	< 0,100 %
Specific gravity (25°C)	1,178
pH (25°C)	9,40

PACKAGING

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

ADDITIONAL CERTIFICATIONS & MARKINGS

- Concrete shall be designed in accordance with *Standard Recommended Practice for Selecting Proportions for Concrete*, ACI 211.
- The mid-range water-reducing admixture shall be manufactured to meet all the requirements of *Specification for Chemical Admixtures for Concrete*, ASTM Designation C494 as a Type A and Type F admixture.
- The admixture shall be delivered as a ready-to use, liquid product and shall not require mixing at the batching plant or job site. The admixture shall not contain added calcium chloride. It shall be used in strict accordance with manufacturer's recommendations.

PRECAUTIONS

- Avoid prolonged exposure to temperatures below 25°F (–5°C) or above 110°F (43°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.
- Protect from direct sunlight and moisture to maintain product integrity.

SAFETY

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