



Chryso® Zyla 640

Normal Water Reducing Admixture

DESCRIPTION

Chryso® Zyla 640 is a normal water-reducing admixture designed to reduce water content while enhancing finishability, strength development, and set time control. It is ideal for ready-mix, precast, and prestressed concrete applications requiring improved plasticity and uniformity. This product features a proprietary formulation

incorporating polycarboxylate and highly purified specialty organic chemicals, making it well-suited for concrete with minimal air content impact.

Meets or exceeds the requirements of ASTM C494 Type A & D

ADVANTAGES

- Enhances concrete finishability with smoother, creamier texture
- Boosts compressive and flexural strengths at all ages
- Regulates setting time more effectively than lignin-based reducers
- Facilitates uniform bleed rate and surface tolerance
- Supports use in both normal weight and lightweight concrete

FIELDS OF APPLICATION

- All Cement Types
- Ready-Mix Concrete
- Precast Concrete
- Prestressed Concrete
- Lightweight 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 2–7 fl oz/100 lbs (130–455 mL/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 optimize dosage rates, sequencing, and 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® Zyla 640 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.

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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Performances

- Reduces water content by approximately 3–10%
- Increases concrete plasticity for improved workability
- Improves early and long-term compressive strength
- Maintains concrete air content consistency
- Optimizes compatibility with mid- and high-range water reducers

CHARACTERISTICS

Product Nature	Liquid
Color	Brown
Shelf life	9 months
Cl⁻ Ions content	< 0,100 %
Specific gravity (25°C)	1,084
pH (25°C)	8,80

PRECAUTIONS

- Avoid prolonged exposure to temperatures below 28°F (-2°C), as extreme conditions may affect product performance.
- If the product is exposed to freezing temperatures, gently thaw and agitate thoroughly before use.

SAFETY

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

PACKAGING

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

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