

Chryso® Zyla R

Set retarding admixture

DESCRIPTION

Chryso Zyla R is a normal range water-reducing and set-retarding admixture designed to delay the initial and final set of Portland cement concrete, improving plasticity, workability, and strength. It is ideal for concrete applications in hot weather or where extended setting time is required. This product features linear set

retardation with increasing dosage, making it well-suited for conditions that demand consistent control of setting time and workability.

Meets or exceeds the requirements of ASTM C494 Type D

ADVANTAGES

- Enhances concrete workability
- Increases long-term durability
- Delays setting time for greater placement flexibility
- Simplifies concrete finishing operations
- Optimizes performance in high-temperature conditions

FIELDS OF APPLICATION

- All Cement Types
- High-Performance Concrete
- Type II Cement
- Mass Concrete
- Ready-Mix Concrete
- Hot Weather 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 2–12 fl oz/100 lbs (130–780 mL/100kg) of cementitious material.
- If conditions require using more than the recommended addition rates, please consult your Chryso® representative.

Additional Usage Recommendations

- Structural Concrete (Bridges, Buildings, Foundations)
- Transportation Infrastructure (Bridges, Roads, Highways, Airports, Railways)
- Industrial Flooring (Warehouses, Manufacturing Plants, Distribution Centers)
- Tilt-Up Construction (Panels, Warehouses, Large-Scale Walls)
- Repair and Rehabilitation (Overlays, Grouts, Structural Repair)
- Hydraulic Structures (Dams, Canals, Water Retaining Structures)

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.

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.

TECHNICAL DATA SHEET

Chryso® Zyla R

Set retarding admixture

Chryso
Concrete
Solutions

10/30/2025

Equipment

- A complete line of accurate, automatic dispensing equipment is available. Chryso® Zyla R should be introduced to the mix through the water tank pipe or through a separate hose.

Complimentary Products

- Chryso® Zyla R 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.

Performances

- Reduces water demand by approximately 5%
- Extends initial setting time by 2 to 3 hours at 70°F (21°C)
- Improves compressive and flexural strengths at all ages
- Controls air content without requiring additional adjustment
- Delivers linear set retardation with increasing dosage

CHARACTERISTICS

Product Nature	Liquid
Color	Brown
Shelf life	9 months
Cl⁻ ions content	< 0,100 %
Specific gravity (25°C)	1,060
pH (25°C)	6,10

PRECAUTIONS

- 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

ADDITIONAL CERTIFICATIONS & MARKINGS

- Concrete shall be designed in accordance with *Standard Recommended Practice for Selecting Proportions for Concrete*, ACI 211.1.
- The set-retarding/water-reducing admixture shall comply with ASTM Designation C494, Type D admixture
- Certification of compliance shall be made available on request.
- It shall be used in strict accordance with the manufacturers' recommendations.

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