TECHNICAL DATA SHEET

Chryso®Recover

Set retarding admixture

Chryso Concrete Solutions

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DESCRIPTION

Chryso®Recover is a set retarding admixture designed to stabilize the hydration of Portland cement, enabling wash water reuse, reducing concrete waste, and supporting extended set time applications. It is ideal for ready-mix and hot weather concrete applications requiring controlled set time extension or temporary stabilization of returned concrete. This product features a predictable and controlled dosage-response, making it well-suited for hot weather concreting, mass pours, and the reuse of leftover or wash water concrete.

Meets or exceeds the requirements of ASTM C494 Type B & D.

ADVANTAGES

- Delivers reliable set retardation in hot weather conditions
- Prevents the waste of leftover concrete
- Eliminates wash water discharge from mixers
- Enables long haul deliveries to remote sites
- Facilitates extended set time control

FIELDS OF APPLICATION

- All Cement Types
- Ready-Mix Concrete
- Precast Concrete
- Hot Weather Concreting
- Mass Concrete
- HPC & UHPC Concrete

Method of Use

Dosage

- Dosage rates can vary with the type of application.
- Typical dosage rates are:
  - Returned or Lefover Concrete: 3 to 128 fl. oz/cwt (195 to 8350 mL/100 kg)
  - Set Time Extensions (+4 hours): 5 to 50 fl. oz/cwt (325 to 3260 mL/100 kg)
  - ASTM Type B or D Retarder: 2 to 6 fl. oz/cwt (130 to 390 mL/100 kg)
- Optimal addition rates will depend on the specific materials involved, mixer type and stabilization period.
- If conditions require using more than the recommended addition rates, please consult your Chryso® representative.

Additional Usage Recommendations

- Transportation Infrastructure (Bridges, Roads, Highways, Airports, Railways)
- Structural Concrete (Bridges, Buildings, Foundations)
- Repair and Rehabilitation (Overlays, Grouts, Structural Repair)
- Industrial Flooring (Warehouses, Manufacturing Plants, Distribution Centers)
- Marine and Coastal Structures (Ports, Docks, Seawalls, Offshore Platforms)

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

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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.
- *Reach 360TM System*, an innovative spray wand technology that simplifies wash water procedures is recommended.
- Consult your Chryso® representative for recommendations on appropriate equipment.

Complimentary Products

- Chryso®Recover 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.

Performances

- Stabilizes hydration of Portland cement for up to 96 hours based on dosage
- Maintains concrete in a plastic state to allow reuse
- Allows wash water to be reused in subsequent batches, aiding mixer cleaning
- Enables resumed hydration with normal plastic and hardened properties
- Controls initial set time in varying environmental and jobsite conditions

CHARACTERISTICS

Product Nature	Liquid
Color	Blue
Shelf life	12 months
Cl^- Ions content	< 0,100 %
Specific gravity (25°C)	1,135
pH (25°C)	4,00

This product does not contain any purposely added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

PRECAUTIONS

- Product will begin to freeze at approximately 32 °F (0 °C), but will return to full capabilities after thawing and thorough agitation.
- Do not use pressurized air for agitation.

SAFETY

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

PACKAGING

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