

RECOVER®

Set retarding admixture

DESCRIPTION

RECOVER® is a ready-to-use aqueous solution of chemical compounds specifically designed to stabilize the hydration of Portland cement concretes.

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

ADVANTAGES

- Eliminates the need to discharge wash water from the mixer
- Prevents the waste of unused concrete
- Provides predictable extended set times
- Enables long hauls to remote sites

FIELDS OF APPLICATION

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

Method of Use

Dosage

- RECOVER® addition rates can vary with the type of application. The addition rate can range between 6 fl. oz & 128 fl. oz (180 mL & 3800 mL) per treatment.
- 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.
- Dosage rates may vary when used in conjunction with other CHRYSO® admixtures.
- Should conditions require using more than the recommended addition rates, please consult your CHRYSO® representative.

Additional Usage Recommendations

- Designed to stabilize mixer wash water and returned or leftover concrete for extended periods, allowing for use of the materials when specified or allowed.
- Suitable for use where controlled extended set of concrete is needed. It is the concrete user's responsibility to determine if leftover, returned, or extended-set concrete is specified or allowed.
- Ideal for wash water applications, eliminating the need to discharge wash water from the mixer. This allows the wash water to be used as mix water in the next batch of concrete produced and prevents the residual plastic concrete from hardening.
- Used to prevent plastic concrete from reaching initial set for returned or leftover concrete. This allows the concrete to be stored in a plastic state and then used when specified or allowed. The use of this concrete may require the addition of freshly batched concrete and/or an accelerator.
- Recommended in situations where a controlled set time extension is required, such as extended hauls, large continuous pours, or pre-batching of concrete for later use.

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Implementation

- In general, it is recommended that RECOVER® be added to the concrete mix near the end of the batch sequence for optimum performance. Different sequencing may be used if local testing shows better performance.
- Please see [Technical Bulletin TB-0110](#), *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations.
- 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

- A complete line of accurate, automatic dispensing equipment is available.
- *Reach 360™ System*, an innovative spray wand technology that simplifies wash water procedures.

Complimentary Products

- RECOVER® is compatible with most CHRYSO® admixtures as long as they are added separately to the concrete mix, usually through the water holding tank discharge line.
- 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 the hydration process of Portland cement preventing it from reaching initial set. This stabilization is not permanent and is controlled by dosage rate.
- Provides stabilization of up to 96 hours is possible depending on dosage rate.
- Coats the interior of the mixer with treated wash water. The water is used as mix water in the next batch of concrete produced, which then scours the unhardened material from the interior of the mixer.
- Maintains the plasticity of returned or leftover concrete for the desired storage duration. The concrete resumes normal hydration when the dosage effects subside or when activated by fresh concrete or an accelerator, resulting in concrete with normal plastic and hardened properties.

CHARACTERISTICS

Product Nature	Liquid
Color	Blue green
Shelf life	9 months
Cl⁻ Ions content	≤ 0,100 %
Specific gravity (25°C) in g/ml	1,116
pH (25°C)	6,80

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

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