

CONCERA® SA8080

High Range Water Reducing Admixture

DESCRIPTION

CONCERA® SA8080 is a highly efficient high-range water-reducing admixture. Its unique formulation of polycarboxylate dispersants and rheology modifiers allows it to be effectively used in a wide variety of applications.

Meets or exceeds the requirements of ASTM C494 Type A & F, and ASTM C1017 Type I.

ADVANTAGES

- Enables very high flow segregation-resistant concrete
- Provides extended slump flow retention
- Ensures consistent and predictable performance
- Improves strength and durability
- Enhances pumpability and finishability with harsh aggregates
- Accelerates cycle times and truck turnaround
- Facilitates easier and faster placement and finishing

FIELDS OF APPLICATION

- Air Entrained & Non-Air Entrained Applications
- Low Slump/Dry Cast Concrete
- Traditional Slump Ranges
- Controlled Low-Strength Material (CLSM)
- SCC Concrete

Method of Use

Dosage

- CONCERA® SA8080 dosage rates can vary with the type of application. The addition rate can range between 2 oz/cwt and 24 oz/cwt (130 mL/100 kg and 1560 mL/100 kg) of cementitious material.
- Optimal addition rates will depend on other concrete mixture components, job conditions, and desired performance characteristics.
- 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

- Suitable for a wide variety of concrete applications, including dry-cast & low/zero slump mixes, traditional slump concrete and controlled low-strength material (CLSM)
- Ideal for use in any concrete where minimizing cement content is desired without negatively impacting finishability, strength or durability properties.
- Perfect for challenging jobsites where maintaining concrete quality is essential, thanks to its extended pumpability and slump retention.

Implementation

- In general, it is recommended that CONCERA® SA8080 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.

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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Equipment

- A complete line of accurate, automatic dispensing equipment is available.

Complimentary Products

- CONCERA® SA8080 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

- Enables the discharge of dry-cast, zero slump and low slump fast and efficiently, improving cycle times and feed rates of curbing, barrier wall, pipe machines and hollow-core.
- Improves strength & durability through better cement dispersion, compaction and hydration along with superior finishability & form finish.
- Performs consistently and linear as a water reducer, mid-range water reducer and high range water reducer.
- Enhances movement of the concrete under energy thereby allowing concrete to be floated and finished faster and easier, even with mix designs containing manufactured sands.
- Produces controlled flow concrete with extremely high levels of workability without segregation. Slump flows can vary from 16 to 25 inches (410 to 635 mm) with the types of materials used, but will typically range from 18 to 22 inches (460 to 560 mm)
- Provides superior water tolerance to concrete, making it less susceptible to normal manufacturing moisture fluctuations
- Extends slump life to enable batch plant adjustments and predictable jobsite plastic properties

CHARACTERISTICS

Product Nature	Liquid
Color	Brown
Shelf life	12 months
Cl⁻ Ions content	≤ 0,100 %
Specific gravity (25°C)	1,041
pH (25°C)	4,80
Freezing Point	32 °F

PRECAUTIONS

- In storage, and for proper dispensing, product should not experience prolonged exposure below 32°F (0°C)
- Product will begin to freeze at approximately 32°F (0°C), but will return to full strength 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
- 210 L (55 Gallons) Drum
- 1000L Tote (275 gallons)