

CONCERA® SA8080

High Range Water Reducing Admixture

DESCRIPTION

CONCERA® SA8080 is a high efficiency polycarboxylate based linear dose water reducer and high range water reducing admixture. A unique formulation of polycarboxylate dispersants and rheology modifiers enables CONCERA® SA8080 to be successfully used in a wide variety of applications ranging from dry cast and zero slump mixes to highly flowable self-consolidating mixes. Throughout this diverse range of applications, CONCERA® SA8080 provides superior overall workability, rheology and finishability resulting in productivity improvements, excellent strength and durability properties.

CONCERA® SA8080 is supplied as a ready-to-use liquid that weighs approximately 8.65 lbs/gal (1.04kg/L). It does not contain intentionally added chlorides.

CONCERA® SA8080 can be used to make self-consolidating concrete (SCC) with superior water tolerance and very high levels of workability without segregation. In addition, CONCERA® SA8080 produces SCC concrete that is less sticky and has improved finishability and form finish even when used in mix designs containing harsh aggregates. CONCERA® SA8080 can be used by itself or in conjunction with ADVA® products to achieve optimal properties.

ADVANTAGES

- Linear dose capability 3" (75mm) slump concrete to SCC
- Enables very high flow segregation-resistant concrete
- Provides extended slump flow retention
- Consistent and predictable performance
- Improved strength and durability
- Improved pumpability and finishability with harsh aggregates
- Reduces required job-site QC support
- Faster cycle times and truck turnaround
- Easier and faster placement and finishing
- Sustainability benefits

FIELDS OF APPLICATION

- Formulated for use in air entrained and non-air entrained applications
- Low Slump/Dry Cast
- Traditional Slump Ranges
- Control Flow Concrete
- SCC Concrete

Method of Use

Dosage

- CONCERA® SA8080 is an easy-to-dispense liquid admixture. Dosage rates can be adjusted to meet a wide spectrum of concrete mix proportions and performance requirements and typically range from 2-24 oz/cwt (130-1560 ml/cwt kg).

Additional Usage Recommendations

- **Dry-Cast and Zero/Low Slump Mixes:** CONCERA® SA8080 enables the discharge of dry-cast, zero slump and low slump fast and efficiently. This improves cycle times and feed rates of curbing, barrier wall, pipe machines and hollow-core. In addition, CONCERA® SA8080 results in improved strength and durability through better cement dispersion, compaction and hydration along with superior finishability and form finish.
- **3" to 8" Standard Slump Concrete:** CONCERA® SA8080 performs consistently and linear as a water reducer, mid-range water reducer and high range water reducer. CONCERA® SA8080 improves movement of the concrete under energy thereby allowing concrete to be floated and finished faster and easier, even with mix designs containing manufactured sands. In many cases, cementitious contents can be

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reduced without negatively impacting finishability, strength or durability properties. Concrete slump retention and pumpability properties are superior with pump pressures reduced due to the slicker surface properties of the mix.

- **Control Flow Concrete:** CONCERA® SA8080 is recommended for use in the production of Control Flow Concrete, a highly flowable conventionally proportioned concrete category with slump flows that reside between conventional and self-consolidating concrete. Typical water content of base mixture (without CONCERA® SA8080) should be sufficient to produce an untreated 2-5 inch (50-125 mm) slump.
 - Produces 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 the concrete, making it less susceptible to normal manufacturing moisture fluctuations
 - Extends slump life to enable batch plant adjustments and predictable job site plastic properties

Equipment

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

Complimentary Products

- CONCERA® SA8080 is compatible with most admixtures as long as they are added separately to the concrete mix, usually through the water holding tank discharge line. In general, it is recommended that the product be added to the concrete mix near the end of the batch sequence for optimum performance. Please see [Technical Bulletin TB-0110, Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations](#) for further recommendations.
- For concrete that requires air entrainment, the use of an ASTM C260 air-entraining agent, such as DAREX® II AEA is recommended to provide suitable air void parameters for freeze-thaw resistance.

CHARACTERISTICS

Product Nature	Liquid
Color	Brown
Shelf life	12 months
Cl ⁻ Ions content	< 0,100 %
Specific gravity (25°C) in g/ml	1,041
pH (25°C)	4,80

PRECAUTIONS

- CONCERA® SA8080 will begin to freeze at approximately 32°F(0°C) but will return to full strength after thawing and thorough agitation.
- In storage and for proper dispensing, the temperature should be maintained above 32°F (0°C).

SAFETY

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

PACKAGING

- Bulk
- 275 gallon tote
- 55 gallon drum

ADDITIONAL INFORMATION

TECHNICAL DATA SHEET

CONCERA® SA8080

High Range Water Reducing Admixture

Chryso
Concrete
Solutions

10/24/2024

APPLICATIONS	SLUMP/FLOW	TYPICAL DOSAGE	BENEFITS
Low slump (i.e. Curb, Barrier)/ Dry cast	0-3" (0-75mm)	2-4 oz/cwt (130-200 ml/cwt kg)	Better feed from truck, faster feed through extruding machine, better finish directly from machine, faster cycle times, improved strength and density.
Traditional slump ranges	3-8" (75-200mm)	3-8 oz/cwt (195-520 ml/cwt kg)	Linear dose performance, improved finishability and pumpability with manufactured sands. Excellent slump retention.
Control Flow Concrete	16-24" (405- 610mm)	8-18 oz/cwt (520-1170 ml/cwt kg)	Faster placement with reduced labor and QC, segregation resistant, excellent slump retention.
SCC Concrete	20-28" (510- 710mm)	10-24 oz/cwt (650-1350 ml/cwt kg)	Highly flowable and superior water tolerance, enhanced consistency, finishability with manufactured aggregates.

ADDITIONAL CERTIFICATIONS & MARKINGS

- Concrete shall be designed in accordance with *Standard Recommended Practice for Selecting Proportions for Concrete*, ACI 211.
- CONCERA® SA8080 shall be manufactured to meet all the requirements of Specification for Chemical Admixtures for Concrete, ASTM Designation C494 as a Type A and F and ASTM C1017 Type I admixture.
- The admixture shall be delivered as a ready-to-use, liquid product and shall not contain added chlorides.
- It shall be used in strict accordance with manufacturers recommendations.

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