

CONCERA™ SA8716

BS EN 934 and SS EN 934 high range water-reducing admixture

Product Description

CONCERA™ SA8716 is an admixture within the CONCERA family of admixtures specifically developed to produce Control Flow Concrete, a high flow concrete that uses conventional mix designs. CONCERA SA8716 is a highly efficient, polycarboxylate-based superplasticiser that not only extends slump-flow life but also provides extreme workability without segregation to concrete. It is supplied as a ready-to-use liquid that weighs approximately $1.06 \pm 0.02\text{kg} / \text{L}$. There are no intentionally added chlorides within CONCERA SA8716.

Uses

CONCERA SA8716 will produce highly flowable, conventionally proportioned Control Flow Concrete that has slump flows between conventional and self-compacting concrete.

- Produces concrete with extremely high levels of workability without segregation. Slump flows can vary from 450 to 650 mm with the types of materials used.
- CONCERA SA8716 can also be used as a conventional high range water reducer.
- Provides superior water tolerance to the concrete making it less susceptible to normal manufacturing moisture fluctuations.
- Enables batch plant adjustments and predictable job site plastic properties in the extension of slump life.

Product Advantages

- Uses conventional mix designs
- Enables the production of extremely high-flowing, segregation-resistant concrete
- Yields consistent and predictable slump flows
- Provides extended slump flow retention
- Reduces/ eliminates job-site QC support
- Provides consistent air management

Control Flow Concrete

Control Flow Concrete is a highly flowable concrete utilising conventional mix designs, which requires minimal external energy to properly compact. Control Flow Concrete produced with CONCERA SA8716 high range water-reducing admixture has unique advantages compared to conventional flowing concrete and/ or self-compacting concrete.

Addition Rates

CONCERA SA8716 is an easy-to-dispense liquid admixture. Dosage rates can be adjusted to meet a wide spectrum of concrete mix proportions and performance requirements. Addition rates will normally range from 500 to 2,000 mL/100 kg of cementitious material, depending on actual applications. Should conditions require using more than the recommended addition rate, please consult your GCP Applied Technologies representative.

Compatibility with Other Admixtures and Batch Sequencing

CONCERA SA8716 is compatible with most GCP 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 consult your GCP Applied Technologies representative for guidance.

Dispensing Equipment

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



Advantages Compared to Conventional Concrete Mixtures

- High flowability concrete – enhanced flow properties with no change in stability or segregation resistance.
- Easy placement and finishing – minimised need for vibration due to high flow and high responsiveness to external energy.
- Segregation resistance – increased window of mix designs that maintain acceptable cohesiveness.
- Minimised blocking – high passing ability through congested reinforcement without aggregate “blocking” when produced with maximum size aggregate conforming to ACI 211.1.
- Fast construction – significantly faster concrete discharges and placement.
- Reduced equipment wear – pumps at lower pressures.

Advantages Compared to Self-Compacting Concrete Mixtures

- Lower material costs – uses conventional mix designs instead of specialised mix proportions.
- Superior moisture tolerance – consistent and predictable flow properties through a larger range of manufacturing moisture fluctuations.
- Reduced job site quality control – improved stability and segregation resistance reduces need for jobsite adjustments.

Packaging and Handling

CONCERA SA8716 is available in bulk, delivered by metered tank trucks, in totes, and drums. CONCERA SA8716 will begin to freeze at approximately 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 0 °C.

Health and Safety

See CONCERA SA8716 Material Safety Data Sheet or consult GCP Applied Technologies.

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Last Updated: 2022-11-24

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