

TECHNICAL DATA SHEET



**High Range Workability
Concrete Admixture.**



DESCRIPTION

SM5® CF30 is a high-performance liquid concrete admixture formulated from selected polymers specifically designed to enhance the effectiveness of the water content in concrete. This enhancement can improve workability and increase ultimate strengths through very high levels of water reduction in the concrete mix. **SM5® CF30** has strong workability retention, which is beneficial for long-distance and hot weather concrete deliveries, making it particularly suitable for ready-mix concrete.

APPLICATIONS

- To increase workability retention of fresh concrete.
- To provide increased ultimate strength by reducing water demand in concrete mixes.
- To produce high-quality concrete with improved durability by reducing permeability.
- For long-distance and hot weather concrete deliveries.

CHARACTERISTICS & ADVANTAGES

- Higher strength with the same cement content.
- Minimizes segregation problems by improving cohesion.
- Improves workability, reducing placing and compaction issues.

- Enables cement savings without compromising strength.
- Produces more durable concrete due to reduced permeability and a lower water-to-cement ratio.
- Chloride-free.

COMPATIBILITY

SM5® CF30 can be used with all types of Portland cement and supplementary cementitious materials. It is compatible with other **SMARTSTONE®** admixtures used in the same concrete mix. If more than one type of admixture is used, they must be dispensed separately.

STANDARDS

SM5® CF30 complies with ASTM C494, Types B, D, and G, depending on the dosage used.

METHOD OF USE

SM5® CF30 should be added to the concrete mix along with the mixing water to achieve optimum performance. Use an automatic dispenser to ensure the correct quantity of **SM5® CF30** is added.

DOSAGE

For normal strength concrete, a dosage of 1.75 – 0.80 liters per 100 kg of cementitious materials in the mix, including GGBFS, PFA, or microsilica, is recommended.

For high-strength concrete, a dosage of 2.75 – 1.0 liters per 100 kg of cementitious materials is recommended.

Density: 1.18 - +0.025

EFFECTS OF OVERDOSAGE

Overdosing SM5® CF30 will result in:

Significant increase in retardation.

Increased workability. Ultimate concrete strength will not be adversely affected and will generally be enhanced, provided proper concrete curing is maintained.

SETTING TIME

The setting time is influenced by the dosage of **SM5® CF30** and is affected by:

- Increased retardation with lower levels of tricalcium aluminate in the cement.
- Lower temperatures, which will delay the setting time.

FOR TECHNICAL SERVICES

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