FUSION®

FUSION High-Range Water-Reducing Concrete Admixture

RAMKA
CONSTRUCTION
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FUSION® is a highly effective high-range water-reducing admixture that disperses cement particles and provides high concrete flowability at a very low water-to-cement ratio. It is intended for durable and precast concrete produced at the batching location.

Applications

- High-strength concrete
- Precast concrete and concrete produced at the placement location
- Silica-fume concrete where microsilica agglomeration must be limited
- Pumping and placement through heavily reinforced sections
- Reducing mixing water by up to 40% at constant flowability
- Increasing concrete strength by up to 45%

Approvals / Standards

- ASTM C1017 Type I
- ASTM C494 Type F
- ACI 212.3R-16
- INSO 2930

Advantages / Benefits

- High water reduction at a low dosage
- Improved early-age strength
- Easier vibration and high compaction
- Reduced concrete permeability
- Easier demoulding of precast units
- Improved bond between concrete and reinforcing steel
- Homogeneous concrete with reduced aggregate segregation

Guideline for Use

After establishing the dosage in the mix design, blend FUSION with part of the concrete mixing water and add it at the batching plant after the cement. Do not add it before the cement, where it may be absorbed by aggregates, and avoid adding it without adequate dispersion in the mixing water.

Dosage

0.1 to 1% by weight of cement. The exact dosage must be selected according to the required water reduction, concrete strength, workability and other project requirements.

Storage

+10°C to +30°C, in dry conditions and away from direct sunlight

Packaging

20 kg can / 1,100 kg tank

Shelf Life

One year from production in the original packaging

Health and Safety

- Keep in closed containers away from direct sunlight.
- Do not swallow and avoid contact with the eyes.
- In case of accidental skin or eye contact, rinse immediately with plenty of fresh water.
- Refer to the Safety Data Sheet (MSDS).
- Non-flammable.

Product Information

Chemical base	Polycarboxylate ether
Physical state / color	Liquid / clear and colorless
Density	1.18 ± 0.05 g/cm^3 at 20°C
pH	3-7
Chloride ion content	None
Air content increase	<2%
Alkali content	<5 g Na_2O equivalent/L

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