

FUSION+[®]

High-Range Water-Reducing Concrete Admixture



RAMKA
CONSTRUCTION
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FUSION+[®] is a high-range water-reducing admixture for producing high-strength concrete in precast plants and concrete production stations. The approved source states that it strongly disperses cement particles after addition to the concrete.

Applications

- High-strength, durable concrete
- Precast concrete production
- Concrete containing microsilica pozzolan
- Dispersion of cement particles
- Concrete flowing through heavily reinforced sections
- Increasing concrete strength by up to 45%
- Reducing concrete water by up to 40% at constant flowability

Approvals / Standards

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

Advantages / Benefits

- High performance at a low dosage
- Easier demoulding
- Improved concrete compaction
- Reduced aggregate segregation
- Improved plasticity and bond to reinforcing steel
- Reduced permeability
- Improved early-age strength

Guideline for Use

Add FUSION+ during the cement-addition stage so that it can act on the cement and avoid absorption by aggregates. The approved Persian source contains inconsistent wording about whether the product is added immediately before or together with the cement; the exact addition sequence must therefore be verified in the approved production procedure before use.

Dosage

0.1 to 1% by weight of cement. The exact dosage is selected according to the required water reduction, strength and flowability.

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.

Basis Of Data

Product Information

Chemical base	Polycarboxylate ether
Physical state / color	Liquid / clear and colorless
Density	$1.18 \pm 0.05 \text{ g/cm}^3$
pH	3-7
Chloride ion content	None



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