

TITAN[®]

High-Range Water-Reducing Concrete Admixture



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TITAN[®] is a high-range water-reducing admixture for lowering the water-to-cement ratio and producing high-strength concrete. Its extended slump-retention performance is intended to facilitate ready-mix production, long-distance transport and placement during summer and in hot weather.

Applications

- High-strength concrete production in hot weather
- Long-distance transport during summer without workability loss
- Self-compacting and fibre-reinforced concrete
- Mass concrete and prolonged placements
- Small, heavily reinforced sections
- Increasing 3-day, 7-day and 28-day strength
- Concrete made with crushed or natural aggregates

Approvals / Standards

- ASTM C1017 Type II
- ASTM C494 Type G
- ACI 212.3R-16
- INSO 2930

Advantages / Benefits

- High effectiveness at a lower dosage
- Extended concrete workability
- Easier pumping and reduced equipment wear
- Improved cohesion and uniformity
- Compatibility with different cement types and supplementary cementitious materials
- No stated interference with ultimate-strength development
- Controlled bleeding and segregation in highly flowable and self-compacting concrete
- Reduced risk of cold joints during prolonged placement

Guideline for Use

Either add the full TITAN dosage after the cement during batching, preferably after dilution with part of the mixing water, or add part of the TITAN dosage at the batching plant and add PALLADIUM at the job site. The second procedure is described for transport distances longer than 2 hours in very hot weather, with TITAN used first for water reduction and PALLADIUM used at site solely to restore flowability for pumping.

Dosage

0.3 to 1% by weight of cement. Depending on the concrete mix design, increasing the dosage may provide greater water reduction, higher flowability and longer slump retention.

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

Basis Of Data

Product Information

Chemical base	Polycarboxylate ether
Physical state / color	Liquid / translucent amber
Density	1.11 ± 0.05 g/cm ³
pH	3-6
Chloride ion content	None



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