



TOTAL[®] is a superplasticizing admixture for increasing concrete flowability at the batching plant or job site. Its retarding and slump-retaining action is intended for lowering the water-to-cement ratio, increasing strength and supporting economical mix designs in hot regions and during summer.

Applications

- High-strength concrete in hot weather
- Retention of concrete workability and strength for up to 1 hour at high temperature
- Easier pumping, particularly through long pipelines
- Tank-wall and swimming-pool concrete
- Improved compaction, reduced permeability and increased durability
- Beam and column concrete
- Concrete flooring
- Reduction of cement content

Advantages / Benefits

- Water reduction of 10 to 30% at equal flowability
- Improved concrete strength and durability
- Improved concrete cohesion
- Reduced thermal cracking
- Reduced bleeding and segregation
- Compatibility with Portland cements and pozzolans

Guideline for Use

For batching-plant use, add TOTAL after the cement, preferably after blending it with mixing water. For job-site addition, bring the concrete to the truck-mixer opening, assess flowability and add the measured product. Return the concrete to the drum and mix for 4 minutes. If the required slump is not achieved, repeat the approved procedure with an additional measured dosage.

Dosage

The approved source states an average dosage of 1.2 kg per cubic metre of concrete.

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.
- If swallowed, seek medical attention immediately.
- Refer to the Safety Data Sheet (MSDS).
- Non-flammable.

Basis Of Data

Product Information

Physical state / color	Liquid / brown
Density	$1.15 \pm 0.05 \text{ g/cm}^3$
pH	7 ± 2
Chloride ion content	None



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