

# TTCast 750

High range water reducer/superplasticizer prefabricated concrete admixture.

## PRODUCT DESCRIPTION

**TTCast 750** is a chemical additive specially developed for the prefabricated concrete sector, significantly enhancing the early strength and fluidity of concrete.

## FEATURES

- **High Early Strength:**Substantially increases the early strength of concrete to facilitate early demolding.
- **High Workability Retention:**Thanks to its polycarboxylate-based formula, it ensures better dispersion of cement particles, resulting in a lower water-to-cement ratio and thus increased strength.
- **Ease of Handling:**Improves concrete workability for easier placement and compaction.
- **Rapid Setting:**Facilitates quick setting of concrete and eliminates the need for vibration.

## ADVANTAGES

- **Increased Strength and Durability:**Reduced water-to-cement ratio significantly enhances concrete strength and durability.
- **High Workability and Workability Retention:**Its polycarboxylate-based structure prevents cement agglomeration and ensures more homogeneous distribution. It maintains the desired consistency of concrete with a low water-to-cement ratio.
- **Time and Labor Savings:**Facilitates faster and easier concrete placement, reducing labor costs and construction time.
- **Aesthetic and Quality Surfaces:**Enhanced workability contributes to smoother and higher-quality surfaces.

## USAGE AREAS

- **High-Performance Concrete:**Widely used in the production of prefabricated elements with high early and long-term strength.
- **High-Flow Concrete:**Used in the production of concretes requiring high flowability and workability.
- **Self-Compacting Concrete:**Used in the production of concrete that easily settles under its own weight.
- **Complex Forms and Confined Spaces:**Used for filling complex forms and placing concrete in confined spaces.



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- **Material Savings:** Reduced water usage enhances cement efficiency and allows for material savings.
- **Energy Efficiency:** Faster placement and less vibration requirement reduce energy consumption.
- **Environmental Impact:** Reduced water usage and durable structures contribute to environmental sustainability.

## RECOMMENDED DOSAGE

**TTCast 750** can be used between 0.5% - 2.0% of the total amount of binder in concrete. Since the usage rate may vary depending on other components, it is recommended to determine the exact amount by conducting laboratory tests.

## TECHNICAL SPECIFICATIONS

<b>Color and form</b>	Yellowish liquid
<b>Chemical origin</b>	Polycarboxylate ether based liquid
<b>Density (kg/l)</b>	1,07 – 1,11 (at 20 °C)
<b>pH</b>	3 – 7

## EQUIPMENT CLEANING

Equipment that comes into contact with the product can be cleaned by washing with warm water or brushing.

## PACKAGING AND STORAGE

Bulk, 1000 lt IBC,

When stored in its original, unopened, and undamaged packaging between +5 and +35 °C, the product has a shelf life of 12 months from the date of manufacture. Protect from direct sunlight and frost.

## SAFETY

Gloves, protective masks, and goggles should be worn while handling. In case of contact with skin or eyes, rinse thoroughly with plenty of water. For detailed safety information, please refer to the product Safety Data Sheet