

# COSTARMIX 600 CAST



## Product Data Sheet

f @ in Costar Industries Inc.

# COSTARMIX 600 CAST

**High Early Age Strength, Low Viscosity High Performance water reducing Super Plasticizer for Precast Concrete Industry.**

### Description

Costarmix 600Cast is PCE based water reducing super plasticizer which has been specifically developed for the precast concrete industry coupling superior high range water reducing capabilities and excellent dispersion levels with robust performance. It is ideal for use in precast concrete where the desire to maximize the performance of the concrete in the plastic and hardened state is preeminent.

### Advantages

- High early age strength development to improve productivity, earlier transfer of pre-stress and negates the requirement for accelerating admixtures during cold weather.
- Chloride free. Ideal for concrete containing embedded steel.
- Water reductions of up to 45%, promote higher early age strength and superior ultimate strength.
- Increased final strength facilitates earlier striking of form work, lifting of precast elements and further cement reductions. This enables the producer to increase efficiency and reduce overall energy input.
- Improved rheology of concrete provides a blemish free surface finish which requires less remedial work (dressing).
- Compatible with all types of cement.
- Produces concrete with excellent durability, low permeability and improves resistance to sulphate attack.

### Area of Use

- Ideal for producing Self Compacting Concrete (SCC), super workable flowing concrete and high workability concrete.
- To produce highly workable concrete at very low water to cement ratios providing ease of mold filling and less workmanship where access or dense reinforcement can be a challenge.
- Used in concrete production where high early and final strength is required.

### Typical Dosage

Optimum dosage should always be determined by trials using the materials and conditions that will be exposed in use to meet specific requirements.  
The typical dosage range for Costarmix 600Cast is 0.3 to 1.2 liters /100 kg of cementitious content.

### Technical Details

Appearance	Dark Straw
Chloride Content	Nil
PH Value	5+/-1
Specific Gravity	1.05– 1.07
Air Entrainment	< 2%
Water Reduction	35-45%

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### Effect of Overdosing

An overdose of above the recommended level of admixture may promote segregation and excessive bleeding of the concrete mix. The ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete if properly placed and cured.

### Dispensing

The measured quantity of Costarmix 600Cast should be added along with the gauging water. For best results, add Costarmix 600Cast in the last phase after pre-wetting the mix with 80% of the total water required.

### Spillage/Cleaning

- Spillages of product should be absorbed onto sand, earth or vermiculite and transferred to suitable containers.
- Remnants should be hosed down with large quantities of water.

### Fire

It is water based and non- flammable.

### Packaging

1000L tank, 210L drum & 25L gallon

### Shelf life

1 year

### Standard

Costarmix 200Cast is formulated to comply with all the requirements of

- ASTM C494, Type A & F
- En943, Part 2, Tables 1&2

### Safety Precautions

- Avoid Contact with eyes and skin
- If skin contact occurs, wash skin thoroughly
- Wear Protective gloves and eye protection during work
- If In eyes, hold eyes open, flood with warm water and seek medical attention immediately

### Warranty

The information and recommendations relating to the application of Costar products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costar endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costar reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request

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