

# COSTAMIX 600DG

## Fourth Generation (PCE) High Performance Concrete Pumping Superplasticizer

### Description

COSTAMIX 600DG is a 4th generation unique combination of polycarboxylic ether based polymers slump retaining and water reducing super plasticizer specifically engineered for high performance concrete to achieve improve workability, durability and also reduces permeability. This new generation plasticizer enables improved initial and final strength.

### Uses

- Costamix 600DG is used in the production of high performance precast and pre-stressed concrete by reducing significant amount of water.
- Used to achieve high strength with improved workability and reduced w/c ratio.
- Long distance transportation of concrete.
- Costamix 600DG is used in all concrete works where good workability and increased waterproofing properties are required such as sea walls, swimming pools, tunnels, bridges etc.
- Used in production of concrete with extremely workable characteristics referred to as high slump.
- Hot weather concreting.

### Features

- Reduces the need for job site adjustment of slump and workability.
- Reduced dimensions of long term shrinkage and creep. Also minimizes risk of segregation and bleeding
- Improved workability and pumping properties
- Suitable for pre-stressing
- Increased compressive and flexural strength of the concrete both at early and final stage.
- Protection of reinforcement steel against detrimental water-borne attack.
- Reduces /eliminates the high energy requirements of external heat for accelerated curing.
- Provides perfect slump retention at hot climates.
- About 20-30% water reduction.

### Technical Data

Appearance	Brown Low Viscous Liquid
Chloride Content	Nil
PH Value	7-9
Density	1.06g/cm <sup>3</sup> ± 0.01
Air Entrainment	< 2%
Water Reduction	20-30%

### Dosage

Optimum dosage should always be determined by trials using the materials and conditions that will be exposed in use to meet specific requirements.

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Typical dosage for Costamix 600DG is within the range 0.4kg - 0.75kg to 50kg of cementitious content

### Effect of Overdosage

An overdose of above the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. 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 Costamix 600DG should be added along with the gauging water. For best results, add Costamix 600DG 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.

### Packing Size

1000L tank, 210L drum & 25L gallon

### Shelf Life

- 1 year

### Standards

- Costamix 600DG is formulated to comply with all the requirements of
- ASTM C494, TYPE D, F & G
  - 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

### Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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