



# DURAPLAST PC 600

**PCE based High range water reducing cum retarding hyper plasticiser for ready mix concrete**

## Primary applications

Exclusively for Ready Mixed Concrete's for high grades of concrete.

Improves cohesion and reduces bleed and segregation

Can be used in hot weather conditions also

Ideal for long distance transport and for mass concrete pours.

## Features & Benefits

**Speeds Construction** - Increased workability reduces placing time, equipment and labour element.

**Self Compacting** - DURAPLAST PC 600 modified concrete is highly fluid and needs little or no compaction.

**Reduced Permeability** - Better dispersion, reduces porosity and improves water penetration resistance.

**Reduced Segregation** - Increased cohesion minimizes segregation and bleeding, improving surface finish.

**Longer Placing Time** - DURAPLAST PC 600 gives greater usable life of concrete at high ambient temperatures because of its unique workability retention potential.

**Improved Pumpability** - Increased workability and cohesion aids pumping by reducing line friction, dry packing and slump loss due to temperature.

**Chloride Free** - Safe in prestressed, reinforced or marine concrete and compatible with sulphate resisting cement or marine aggregate.

**Higher ultimate strength** - The high range water reduction helps in achieving a higher ultimate strength

**Improved durability** - Improved density due to better compaction, reduced permeability all leading to enhancement of durability.

## Standards Compliance

DURAPLAST PC 600 complies with ASTM C 494-80 as a Type B, F & G.

## Description

DURAPLAST PC 600 is specially formulated high range water reducing and hyperplasticising admixture for ready mix concrete designed to impart high workability and slump retention even under high ambient temperature.

## Technical Support

The company provides a technical advisory service supported by a team of specialists in the field.

## Properties

**Colour** Light brown liquid

**Specific Gravity** 1.09 - 1.11 at 27°C

**Air entrainment** Less than 1.5%

**Compatibility** Compatible with all types of portland cement

**Chloride content** Nil (to BS:5075)

**Nitrate content** Nil

**pH** 7.0 - 8.0 at 27°C

**Compressive Strength:** DURAPLAST PC 600 is primarily a highly efficient hyperplasticiser giving large increase in workability without significant changes in compressive strength of concrete.

DURAPLAST PC 600 may be used to produce substantial water reduction in the concrete mix resulting in a considerable increase in compressive strength of concrete.

**Mix Design:** As with all admixtures that produce flowing concrete, the design technique should be based on high cohesion pump mix technology. Specialist advice from Condura is available on request.

## Application instructions

### Dosage

It is recommended that the optimum dosage is determined by site trials with the actual concrete mix. As a guide the rate of addition is generally in the range 0.4% to 0.6% depending on the properties required. A dosage of up to 0.7% can be used depending on the mix design and results desired. Will not affect the setting time and strength of the concrete even in the higher dosages.

### Use at other dosages

Dosages outside the normal range quoted above can be used to meet particular mix requirements. Contact months when stored in unopened containers below 35°C.

### Cleaning

Spillages of DURAPLAST PC 600 can be removed with water.

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## Packing

DURAPLAST PC 600 is supplied in 200 liters containers

## Precautions

### Health & Safety instructions

DURAPLAST PC 600 is non toxic. Any splashes should be washed off with water. If contact with eyes occurs, wash immediately with water and seek medical advice.

### Fire

DURAPLAST PC 600 is non flammable.

## Additional information

Technical data and guidance can be provided on wide range of admixtures and concreting aids, including plasticisers, superplasticisers, retarding admixture and accelerators, etc.

Separate datasheets are available on request.



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