



ULTRA SUPERPLAST 675

High Performer Water Reducing And Plasticizing Admixture

Description

ULTRA SUPERPLAST 675 Superplasticizer is our latest generation of advanced organic polymer dispersants used to modify Portland cement grout or concrete.

ULTRA SUPERPLAST 675 lowers water demand and increases slump without having slump loss associated with other Superplasticizers. **ULTRA SUPERPLAST 675** is ideal for use in any concrete where it is desired to keep the water/cement ratio to a minimum and still achieve the degree of workability necessary to provide easy placement and consolidation.

Where to Use

Use with Portland cement grout and mortar, where high flow is needed. Bridge decks, parapets, air ports, dams, parking garage decks and on-grade highways are some of the places where **ULTRA SUPERPLAST 675** can be used.

- To significantly reduce the water consumption of a concrete mix.
- Improve workability
- Increase early and ultimate strengths without additional cement.
- Particularly suitable for increasing workability of ready-mixed concrete at higher temperatures.
- To reduce concrete permeability, reduce water penetration and enhance durability.

Properties

Appearance: Brown liquid
Specific gravity: Typically 1.150 at 20°C
Chloride content: Nil to BS 5075
Air entrainment: Typically less than 3% additional air is entrained at normal dosages.
Alkali content: Typically less than 72.0 g. Na₂O
Equivalent/liter of admixture. A fact sheet on this subject is available.

Benefits

- Highly efficient, producing high slump concrete at very low dosage with no loss in strength
- Holds slump for long times without loss with near neutral set time
- Excellent water reduction
- High physical strengths
- Reduces bleeding and segregation
- Reduced shrinkage
- Non Corrosive
- Use in production of flowing concrete allows easier construction with rapid placing and compaction resulting in reduced labor costs.
- Chloride free

Technical support

Ultra Chemicals provides a full technical advisory service.

ASTM C494 as type A, F and G

Typical dosage

Trail mix should be used to maximize the benefits.

The normal dosage range is from 0.5 to 1.5 litres/100 kg of cementitious material

For higher workability concrete dosage range should be from 0.5 to 1.50 litre/100 kg of cementitious material.

Use at other dosages

Contact the Ultra Chemicals Customer Service Department for advice in these cases.

Instructions for use

Mixing patterns

Initial trials should be done with normal concrete. After initial trials, minor modifications to the overall mixture may be made as needed to

optimize performance.

More efficient use of mixing water will improve mix cohesion. The slight air entrainment obtained with Ultra superplast 675 will also help to minimize bleeding and segregation.

PACKAGING

ULTRA SUPERPLAST 675 is packaged in bulk, 210 Liters, 30 Liter

Dispensing

The accurate quantity of Ultra superplast 675 should be measured by means of a recommended dispenser.

Contact the Ultra Chemicals Customer Service Department for advice regarding suitable equipment and its installation.

Effects of overdosing

An overdose will result in an increase in retardation.

Over-dosage may also cause increased air entrainment, which tends to reduce strength.

Curing Good curing practice should be maintained especially in the case of an overdose. Water or Ultra Cure spray should be applied

Storage

Ultra superplast 675 has a minimum shelf life of 1 year while stored at 2° -50°C.

Freezing point: Approximately -3°C