



ULTRA SP-445

High Range Water Reducing Retarding Admixture

Admixtures

Surface Treatments

Protective Coatings

Concrete Repairs

Industrial Flooring

Grouts & Anchors,

Adhesives,

Water Proofing

Sealants

Description

ULTRA SUPERPLAST-445 Super plasticizer is our latest generation Concrete Admixture.

ULTRA SUPERPLAST 445 lowers water demand and increases slump without having slump loss associated with other Super plasticizers. ULTRA SUPERPLAST-445 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 445 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.

Storage:

Avoid placing in direct contact to sunlight and always store in shady areas. At high temperature more than 40°C, keep the small cap of drum opened for fumes evaporation. At low temperature below 2°C, liquid may freeze in crystal form which does not affect quality of admixture and may be used after mixing properly.

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 B,D & G.

Typical dosage

Trail mix should used to maximize the benefits. The normal dosage range is from 1.20 to 1.50 litres/100 kg of cementitious material For higher workability concrete dosage range should be from 0.50 to 2.00 litre/100 kg of cementitious material.

Use at other dosages

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

Properties

Appearance: Brown liquid

Specific gravity: Typically 1.190 at 20°C ±2%

Chloride content: Nil to BS 5075

Air entrainment: Typically less than 2% additional air is entrained at normal dosages.

Packing

Ultra superplast 445, is Packaged in bulk, 245kg/210Ltr, 35kg/30Ltr.

Instructions for use

Mixing patterns

Initial trials should be done with normal concrete. After initial trials, a 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-445 will also help to minimize bleeding and segregation.

Dispensing

The accurate quantity of ULTRA SUPERPLAST-445 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 603 spray should be applied.



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