



# ULTRA SUPER PLAST 437

## High Range Water Reducing Retarding Admixture

### Admixtures

**ULTRA SUPERPLAST 437** is a high range water reducing admixture formulated specifically to extend the working time of flowing concrete at temperatures up to 30°C.

**Shelf life** is 2 years in original, unopened package.

### Surface Treatments

#### DIRECTIONS FOR USE

**Quantity** Normal dosage range 0.8-1.5 liter /100kg cementitious material.

Variations in slump loss and setting characteristics are a function of the amount of admixture used, cement characteristics and the mix design selected. An increase in concrete temperature will cause an increase in slump loss and a decrease in initial set time.

### Protective Coatings

### Concrete Repairs

After the initial mix is established, the sand to coarse aggregate ratio may be adjusted to maintain homogeneity of the "flowing" concrete mix. For "flowing" concrete, charge all concrete materials into the mixer and mix five minutes or 70 revolutions to the initial specified slump.

### Industrial Flooring

### Grouts & Anchors,

#### PRIMARY APPLICATIONS

- Reinforced concrete
- High strength concrete
- Industrial slabs
- Lightweight concrete
- Pre-stressed concrete
- Parking structures
- Watertight concrete
- Precast Industry

### Adhesives,

#### PACKAGING

ULTRA SUPERPLAST 437 packaged in bulk, 245kg/210Ltr, 35kg/30Ltr.

### Water Proofing

#### FEATURES / BENEFITS

- Produces "flowing" concrete with controlled delay of slump loss and workability.
- Greatly reduces water requirements.

### Sealants

**Note:** Dosage rate may be changed as per requirements of concrete mix, on consultation of Ultra technical staff. Over dosage can cause retardation.

- Reduces segregation and bleeding in the plastic concrete.
- Reduces cracking and permeability of hardened concrete.
- Increase strength

#### SPECIFICATIONS / COMPLIANCES

ULTRA SUPERPLAST 437 meets or exceeds the following requirements:

- ASTM C 494, Type A & G
- AASHTO M-194
- ACI 201 - minimal chloride content
- ACI 318 - minimal chloride content

#### Physical & Chemical Properties

##### For Normal Concrete:

Appearance	Brown Liquid
Specific Gravity @20°C ± 3%	1.155
Chloride Contents	Nil
Air Entrainment	Less than 2%

##### For Precast Industry:

Appearance	Brown Liquid
Specific Gravity @20°C ± 3%	1.0
Chloride Contents	Nil
Air Entrainment	Less than 2%

#### PRECAUTIONS / LIMITATIONS

• The use of ULTRA SUPERPLAST 437 varies with every application. Therefore, the Engineering or Technical Services Department of the Ultra Chemical Company should be consulted whenever a question on usage or compatibility with other admixtures is raised.

- To minimize concrete problems at concrete temperatures higher than 85°F (30°C), or in windy weather, recommendations of ACI 305-89 report, "Hot Weather

recommendations of ACI 305-89 report, "Hot Weather Concreting." (Use chill Water).

- ULTRA SUPERPLAST 437 must be protected from freezing.
- Add to mix independent of other admixtures.

**WARRANTY:** The Ultra Chemicals, LLC. ("Ultra ") solely and expressly warrants that its products shall be free from defects in materials and workmanship for 12 months from the date of purchase. Unless authorized in writing by an officer of Ultra, no other representations or statements made by Ultra or its representatives, in writing or orally, shall alter this warranty. ULTRA MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Ultra product fails to conform to this warranty, Ultra will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Ultra does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ultra's installation information or instructions in its product literature or on its packaging labels. Any installation of Ultra products which fails to conform to such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Ultra's products for the Buyer's intended purposes.

#### 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.

#### ISO Certification:

Our production facility at Pakistan is ISO 9001:2008 ISO 14001:2004 by BUREAU VERITAS and UKAS Management



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