



ULTRA ACCELERATOR 510

Water Reducing Dynamic Strength Accelerator

ULTRA ACCELERATOR 510 (Dynamic Strength Accelerator) is a non-chloride, water-reducing admixture for concrete specifically designed to address the fast-track construction needs of the concrete industry.

At cooler temperatures, conventional accelerators reduce initial setting times. ULTRA ACCELERATOR 510 will not accelerate initial setting characteristics significantly, but rather achieve high early compressive strengths.

ULTRA ACCELERATOR 510 is particularly effective where heat is present while curing, allowing earlier stripping of forms or restoring the service-ability of concrete repairs.

This heat activated accelerator is compatible with Ultra Chemical air-entraining, dry-cast, and water reducing admixtures.

ULTRA ACCELERATOR 510 contains no added chlorides and will not promote the corrosion of steel.

PRIMARY APPLICATIONS

- Pre-cast/pre-stressed
- Ready mix concrete
- Hot weather concreting
- Cold weather concreting
- Concrete repair
- Fast track construction

FEATURES / BENEFITS

- Increases early strength development without sacrificing workability
- Reduces water demand
- Minimizes bleeding and segregation
- Replaces steam curing
- Quicker form turnaround
- The use of non-chloride admixtures will not promote corrosion of steel reinforcement or forms

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

SPECIFICATIONS/ COMPLIANCES

- Meets or exceeds ASTM C-494, Type A type F and type G admixture.
- Complies with AASHTO M-194.

TECHNICAL INFORMATION

Physical Properties

Specific gravity.....1.155
 Freeze point.....-4°F (-20°C)
 Color.....Brown

Shelf Life: 1 year in original, unopened package.

DIRECTIONS FOR USE

Add ULTRA ACCELERATOR 510 to the final mix water. DO NOT dispense directly onto cement.

Dosages range from 0.1 - 2.0 liters /100 kg of cementitious materials. For higher workability concrete, the normal dosage range is from 0.8 - 2% liter/100 kg of cementitious material.

In case of over-dosage please contact Ultra Chemicals Customer Services Department.

IMPORTANT: Performance should be verified and dosages adjusted based on weather and jobsite conditions.

Appearance

ULTRA ACCELERATOR 510 is a brown liquid and will not affect the color of concrete.

PRECAUTIONS / LIMITATIONS

- ULTRAACCELERATOR 510 will freeze at temperatures of approximately -4°F (-20°C). Freezing and thawing will not harm the material if thoroughly agitated.
- Do not use air for agitation.
- Dispense independently from other admixtures.
- Do not dispense directly onto dry cement.
- In cold weather, always follow AC 306 - Standard Specification for Cold Weather Concreting.

PACKAGING

ULTRA ACCELERATOR 510 is packaged in bulk, 210 Liters, 30 Liter

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 to place direct to sun light and always store in shady areas.

ISO Certification:

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