



ULTRA AEA 192

Air Entraining & Water Reducing Agent For Concrete

ULTRA AEA 192 is formulated for use as an air entraining & water reducing admixture for concrete of all types and is manufactured under rigid control which assures uniform and precise performance. It should be added to the mix independently and not with other admixtures.

Air entrainment increases the resistance of concrete to attack by frost and de-icing salts, reducing problems of surface scaling and concrete failure.

Entrained air bubbles assist in the formation of a stable cohesive mix, reducing segregation and bleeding.

Air entrainment improves workability and helps produce a dense, uniform, close textured surface free from gravel nests and sand runs, further enhancing durability.

Excellent air bubble stability allows use with a wide range of aggregate qualities and mix conditions.

- Provides a stable air void system with proper bubble size and spacing. This air void system protects concrete against damage caused by repeated freeze/thaw cycles.
- Water reduction significantly improves compressive strengths at all ages and enhances durability.
- Controlled retardation extends working life and stiffening time for ease of construction.
- Control of stiffening improves slip forming and assists in preventing the formation of cold joints in large pours.
- Minimized transportation delay Problems maintains place ability and reduces the risk of pump blockage.

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

PACKAGING

ULTRA AEA 192 is packaged in bulk, 210 Liters, 30 Liter

APPEARANCE

ULTRA AEA 192 is a brown colored material which, when added to concrete does not change the concrete's natural appearance.

Shelf life is 1 years in original, unopened package.

DIRECTIONS FOR USE

0.7 - 1.6/100kg cement
ULTRA AEA 192. ULTRA AEA 192/100 kg) of cement will generally entrain 4% - 6% air in concrete. This amount will vary depending on type of cement, fineness of sand, temperature, design of the mix, etc. Concrete mixes must be tested regularly to confirm that the proper air content is achieved.

PRECAUTIONS/LIMITATIONS

Consult your local Ultra Chemicals representative for the proper dosage rate adjustments when using fly ash, slag or high range water reducers.

SPECIFICATIONS/ COMPLIANCES

ULTRA AEA 192 meets or exceeds the requirements of the following specifications:

- Corps of Engineers Specification CRD-C-13
- ASTM Specification C-494
- ASTM Specification C-260
- ANSI/NSF STD 61

Physical & Chemical Properties

Appearance: Brown liquid
Specific gravity: Typically 1.165
At 20°C

Chloride content: Nil to BS 5075

Alkali content: Typically less than 15.0 g. Na₂O Equivalent/liter of admixture. A fact sheet on this subject is available.

Air - 8%-15%

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