VITCON 2014 AWA
Antiwashout Admixture

DESCRIPTION

VITCON 2014 AWA is a liquid cellulose based antiwashout admixture that is specially developed for underwater concrete applications. Concrete containing VITCON 2014 AWA exhibits superior resistance to washout of cement and fines, while impeding the bleeding of external water into the plastic concrete.
VITCON 2014 AWA meets the requirements of CRD-C 661-06, Specification for Antiwashout Admixtures for Concrete.

TECHNICAL DATA

Colour	Brown
Form	Liquid
Specific Gravity	Approx 1.02

USAGE

VITCON 2014 AWA is recommended for the following applications:

- All types of underwater concreting where conventional concrete or placing techniques would result in a high percentage of material loss due to washout.
- Mortar and grouting applications where mixtures are typically more liquid and have a higher potential for washout

ADVANTAGES

- Reduces or eliminates dewatering costs associated with underwater construction
- Segregation and dilution are reduced, in place compressive and bond strengths are significantly increased
- Reduction in washout of cement and fines
- Reduction or elimination of concrete bleeding
- Thixotropic action that provides concrete stiffening after placement
- Superior and predictable in place concrete properties
- Environmental impact of cement washout in water minimized

- VITCON 2014 AWA eliminates the need to dewater construction sites before concrete placement can take place

PERFROMENCE CHARCTERISTIS

- Washout is determined by CRD-C 61, Test Method for Determination the resistance of Freshly Mixed Concrete to Washing Out in Water.
- Concrete that is designed for underwater placement applications is typically batched at an 200-250 mm slump. After VITCON 2014 AWA is added, a decrease in slump will be noted. It may be necessary to add additional high range admixture to achieve the slump required for placement.

APPLICATION METHODOLOGY

- VITCON 2014 AWA should be added with a water reducing admixture, such as VITCON 9001 HP. For achieving high slump concrete, use VITCON 2014 AWA in conjunction with VITCON 9001 PCE high range water reducing superplasticiser admixture. This combination will produce a high performance, flowing concrete that exhibits superior resistance to washout of cement and fines.
  VITCON 2014 AWA should be added after all other concreting ingredients have been blended together, either at the batch plant or at the jobsite.
- Concrete containing VITCON 2014 AWA is easily pumped throughout the typical slump ranges that are used for underwater concreting. It is recommended that concrete containing VITCON 2014 AWA is placed by pump or tremie. Concrete placement should be continuous and without interruption. Keep the discharge point of the placement device immersed in the fresh concrete during placement.
- It is not recommended that concrete containing VITCON 2014 AWA be allowed to free fall through water during placement.

DOSAGE / USAGE

VTCON 2014 AWA is recommended for use at a dosage range of 250-1300 ml/100 kg of cementitious materials for most concrete mixtures. Because of variations in concrete materials, jobsite conditions or applications, dosage outside of the recommended range may be required. Mixing for underwater concrete placement, ACI 304R, Chapter 8, “Concrete Placed Underwater” provides certain basic mixing proportions such as a min. total cementitious material content 356 kg/m^3, use of pozzolans approximately 15% by mass of cementitious materials,

maximum water/cement ratio 0.45, fine aggregate contents of 45-55% by volume of total aggregate, slump 150-230 mm is generally necessary and occasionally a slightly higher slump range is needed and air content up to 5% are listed as desirable.

HEALTH & SAFETY

- VITCON 2014 AWA is non toxic, non flammable and non hazardous.
- Any splashes on the skin should be washed immediately with water.
- Splashes on the eyes should be washed immediately with water and seek medical advice.

PACKAGING

Available 20 kg, 250 kg HDPE drums and bulk Tanker

STORAGE

Must be stored in original packing, in ambient temperature, dry place under shed. Protect from direct sunlight.

SHELF LIFE

12 months in original sealed condition under appropriate storing conditions.