

## VCOBOND ADPLUS-1003



VCOBOND

CONSTRUCTION CHEMICALS

**DESCRIPTION: -**

VCOBOND - ADPLUS 1003 is a blend of organic polymers and is supplied as a brown liquid, instantly dispersible in water. VCOBOND - ADPLUS 1003 has been specially formulated to give high water reductions up to 25% without loss of workability or to produce high quality concrete of reduced permeability.

**FEATURE / ADVANTAGE: -**

- **Improved workability** - easier, quicker placing and compaction.
- **Increased strength** - provides high early strength for precast concrete if water reduction is taken advantage of.
- **Improved quality** - denser, close textured concrete with reduced porosity and hence more durable.
- **Higher cohesion** - risk of segregation and bleeding minimized; thus, aids pumping of concrete.
- **Chloride free** - safe in pre stressed concrete and with sulphate resisting cements and marine aggregates.

**PHYSICAL PROPERTIES: -**

Color	Redish Brown
Chloride content	nil
Specific Gravity	1.205 - 1.215
PH	7.0 - 8.0
Fire	Not flammable

- **Compatibility:** can be used with all types of cements except high alumina cement. Site trials should be carried out to optimize dosages.
- **Workability:** can be used to produce flowing concrete that requires no compaction. Some minor adjustments may be required to produce high workable mix without segregation.
- **Cohesion:** cohesion is improved due to dispersion of cement particles thus minimizing segregation and improving surface finish.
- **Compressive strength:** early strength is increased up to 40 to 50% if water reduction is taken advantage of. Generally, there is improvement in strength up to 20% depending upon w/c ratio and other mix parameters.
- **Durability:** reduction in w/c ratio enables increase in density and impermeability thus enhancing durability of concrete.

**DIRECTION FOR USE:-**

- **Dosage:** - trials need to be carried out at site to optimize the dosage of the admixture for the particular mix design and materials. However, as a guide the rate of addition is generally in the range of 0.150 ml to 0.200 ml for 50 kg of cement for normal grades of concrete.
- **Over dosage:** - an overdose of above the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. The ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete if properly placed and cured.
- **Dispensing:** - the measured quantity of VCOBOND - ADPLUS 1003 should be added along with the gauging water. For best results, add VCOBOND - ADPLUS 1003 in the last phase after pre wetting the mix with 80% of the total water required.

**PACKING SIZE:-**

0.5lit, 1lit, 5lit, 10lit & 20lit.

**STORAGE & SHELF LIFE:-**

6 months if sealed packing and if stored in cool dry place in shaded area.

**HEALTH & SAFETY:-**

VCOBOND ADPLUS-1003 is nontoxic. However, it comes into contact with eyes should be wash immediately with plenty of water & consult a physician.

**LEGAL NOTES:-**

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