

# HYPERCRETE

New generation Polycarboxylic based superplasticizer

## DESCRIPTION

**HYPERCRETE** is polycarboxylic ether based advanced superplasticizer which is specially developed for Self Compacting Concrete applications. The product could be used for virtually any type of ready-mix concreting where the slump retention is important.

**HYPERCRETE** is compatible with all types of cements and other mineral admixtures. **HYPERCRETE** is free of chlorides and meets the requirements of ASTM C494 Type A & F and BS 5075.

Sulfonic groups of Naphthalene or Melamine based admixtures which adsorbed on to the cement particles induce a negative charge and repulse each other and increase the workability. With a similar mechanism, but unlike sulfonic groups, the lateral chains of the main polymer of polycarboxylic ether induce a steric hindrance with strong repulsive force which in turn increase the workability of the cement paste.

## ADVANTAGES

- Make fluid concrete
- Self Compacting Concrete
- Longer slump retention.
- No bleeding & segregation.
- Reduce shrinkage and creep.
- Reduces porosity and hence permeability of hardened concrete.
- Rheoplasticity leads to a densely compacted durable concrete at hardened state.
- Substantially reduce the placement cost and the time.

- Esthetically attractive surface texture and sound finish.
- Very high water reduction and thereby low permeability and shrinkage.
- Less pumping pressure and ease of pumping.
- Helps in hot weather concreting

## COMPATIBILITY

Please seek the advice of Millennium Concrete Technologies before being used with other admixtures.

## DIRECTIONS FOR USE

**HYPERCRETE** should be dispensed into the fresh concrete or with the final quantity of mixing water. It should not come into contact with dry cement or other admixture until they are mixed in the concrete batch.

## DOSAGE

The optimum dosage should be determined by site trials with particular raw materials. As a guide **HYPERCRETE** is normally used at a dosage 600ml to 2000ml per 100kg of cement. However for specific requirements dosages outside the above could be used.

## PACKAGING

**HYPERCRETE** is supplied in 205 L drums or in bulks tankers of 2400 L.

## STORAGE

**HYPERCRETE** has a shelf life of 6 months in its unopened drums. Once opened the balance be consumed within 3 weeks.

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## SAFETY OF HANDLING

**HYPERCRETE** does not contain any hazardous chemicals and non toxic. But it is recommended that safety gloves are used in handling the product.

## TECHNICAL SERVICE

The company provides good servicing from a team of dedicated specialists in the field. When used in accordance with its current published directions, the product will perform as described in this catalogue. Millennium Concrete Technologies will not be responsible for difficulties caused by other materials, conditions or inferior workmanship and quality control. We reserve the right to determine the true cause of any difficulty by accepted test methods.

5/00



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*Innovative Solutions for Concrete*