

ALPHA PLAST SP-540 High range water reducing super plasticizer and slump retention.

DESCRIPTION:

ALPHA PLAST SP-540 High range water reducing admixture it is ideal for use in any concrete where it is desired to keep the water/cement ratio to a minimum and still achieve the degree of workability necessary to provide easy placement and consolidation.

ALPHA PLAST SP-540 does not contain calcium chloride or any other ingredients that would promote the corrosion of steel.

ALPHA PLAST SP-540 Lower water demand and increases slump without having slump loss associated with other Superplasticizers, enabling the water phase of the concrete to perform more effectively. **ALPHA PLAST SP-540** are ingredient other than water, aggregate and Portland cement that are added to a concrete mixture immediately prior to or during mixing.

USES:

ALPHA PLAST SP-540 A concrete admixture is a quick setting cement that can be used for several function for:

- ◆ To significantly reduce the water consumption of a concrete mix.
- ◆ Accelerate its setting time.
- ◆ Improve Workability.
- ◆ High strength concrete
- ◆ Long-distance traveling
- ◆ Low W/C ratio concretes

ADVANTAGES AND BENEFITS:

- ◆ Excellent Water Reducing
- ◆ Diminishing returns.
- ◆ Excessive retardation / bleeding.
- ◆ Increased air content.
- ◆ Slow strength development.
- ◆ Reducing shrinkage.
- ◆ Concrete requires less vibrating.
- ◆ Non Corrosive
- ◆ Improves trowel ability and surface finish.

DOSAGE:

Trail mix should used to maximize the benefits. The normal dosage range is 1.25% to 1.50% by weight of cementitious materiel.

DIRECTIONS FOR USE / APPLICATION:

ALPHA PLAST SP-540 can be added to the initial batch water or directly on the freshly batched concrete. However, better results have been observed batching directly on the freshly batched concrete. It should not come into contact with dry cement or other admixtures until mixed thoroughly with the concrete batch. For "flowing" concrete, charge all concrete materiel into the mixer and mix five minutes or 70 revolutions to the initial specified slump. Add **ALPHA PLAST SP-540** and mix an additional 3 minutes.

PROPERTIES:

Appearance	Brown Liquid
Specific Gravity	Typically 1.15 – 1.18 @ 25°C
Chloride content	Nil to BS 5075 & BS:EN934-2
Air entrainment	Typically less than 3% additional air is entrained at normal dosages.
Alkali content	Typically less than 5.0 g. Na2O Equivalent / litre of admixture.

STANDARDS:

ASTM C494	Type A,B, D, F & G
BS 5075	Part 1
WRC	Used in portable water

PACKING:

Supplied in	CAN / DRUM
Storage	Dry, Frost free, out of direct sunlight.
Shelf life	12 months, when stores as above
Hazard class	No dangerous goods. Observe Material Safety datasheet

COMPATIBILITY:

ALPHA PLAST SP-540 is compatible with all types of cement complying with international standards. It can be used in combination with the following admixtures and additives.

- ◆ Air entraining admixtures
- ◆ Anti-freezing admixtures
- ◆ Pozzolan (Micro silica, flyash, GGBFS)
- ◆ Synthetic fibers
- ◆ Alkali silica reaction control admixtures
- ◆ waterproofing admixtures