

# ALFAPLAST SP 870 (M)



## High performance superplasticizer for slump retention and high strength concrete

### DESCRIPTION

ALFAPLAST SP 870 (M) is a chloride free superplasticising admixture specially design to produce high quality rheoplastic concrete.

ALFAPLAST SP 870 (M) disperses by electro kinetic action in the concrete mix, enabling the water phase of the concrete to perform more effectively.

### USES

- ◆ Specifically developed for use in high strength and high workability concrete at low water content.
- ◆ Excellent flow provides good pumpable concrete.
- ◆ Recommended for high workability concrete such as piling, girders, high-rise building pumping of concrete at height, mass concrete pours with improved cohesion,
- ◆ To significantly improve the workability and retention of site mixed concrete without increasing water demand, especially suitable for concrete required long transportation.

### ADVANTAGES

- ◆ High range water reducer designed to obtain rheoplastic concrete without segregation.
- ◆ Increases ultimate compressive strength and other strength developing properties
- ◆ Effects economies of concrete mix thereby saving cement.
- ◆ Compatible with all type of cement including sulphate resisting.
- ◆ Improves pump-ability of the material.
- ◆ Improves cohesive properties of concrete to reduce segregation & bleeding
- ◆ Reduce the placing problems in hot weather concrete.
- ◆ Improve trowel ability & surface finish
- ◆ Ready mix concrete where workability retention coupled with retardation in initial set
- ◆ Reduces the incidence of honeycombing and colds joints during vibratio
- ◆ Reduce water contents would be of benefit to reduce permeability

### TECHNICAL SUPPORT

Al Falah Chemicals provides a technical advisory service for on-site assistance and advice on mix design, product selection, evaluation trials and dispensing equipment.

### DOSAGE

The optimum dosage of ALFAPLAST SP 870 (M) to meet specific requirements should always be determined by trials. The normal dosage range is between 0.50 to 1.50 liters / 100 kg of cementitious material. For High performance concrete consumption, the dosage range is between 1.50 to 2.50 litres/100 kg of cementitious material.

### TECHNICAL DATA

Appearance	Brown Liquid
Specific gravity	Typically 1.185 - 1.2 @ 25°C
Chloride content	Nil to BS 5075 & BS:EN934-2
Air entrainment	Typically less than 2% additional air is entrained at normal dosages.
Alkali content	Typically less than 5.0 g. Na <sub>2</sub> O Equivalent / liter of admixture

### STANDARDS

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

### PACKAGING

Supplied in	Drum / IBC Tank
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

ALFAPLAST SP 870 (M) 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 admixture
- ◆ Pozzolanz (Micro silica, flyash, GGBFS)
- ◆ Synthetic fibers
- ◆ Alkali silica reaction control admixture
- ◆ Waterproofing admixture

## STORAGE / SHELF LIFE

This Product must be stored where temperatures do not drop below +5°C, If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage consult your local Alfalah representative.

## PRECAUTIONS

### Health and Safety

This product does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

For further information consult the Material Safety Data Sheet available for this product.

## FIRE

This product is water based and non-flammable

### STATEMENT OF RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this Alfalah Chemicals publication are based on the present state of our best scientific and practical knowledge. The information here is of a general nature. No assumption can be made as to product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Alfalah Chemicals either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Alfalah Chemicals, are responsible for carrying out procedures appropriate to a specific application.

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