



ALFAPLAST RP 310

Water reducing-set retarder admixture

DESCRIPTION

ALFAPLAST RP 310 is a solution of sodium lignosulfonate and is completely free of any calcium chloride. It is a water reducing, set retarding admixture for concrete. It provides increased working time, better workability, higher durability and reduced shrinkage and permeability.

PRIMARY APPLICATIONS

- ◆ Structural concrete
- ◆ Bridge decks
- ◆ Highway concrete
- ◆ Light weight and expansive concretes
- ◆ Warm weather applications

USES

- ◆ To improve the effectiveness of the water content of a concrete mix.
- ◆ At higher dosages to provide a cost effective means of reducing concrete permeability and thereby reducing water penetration.
- ◆ To extend working times of concrete.
- ◆ Particularly suitable for use in mixes with low cohesion.

ADVANTAGES

- ◆ Dispersing deflocculating and powerful plasticizer for concrete with controlled retardation.
- ◆ Delays hydration process of cement, thereby retarding initial and final set of concrete.
- ◆ Increases compressive strength and other strength developing properties.
- ◆ Effects economies of concrete mix thereby saving cement.
- ◆ Compatible with all types of cement including sulphate resisting.
- ◆ Improves pump-ability of the material.
- ◆ Improves cohesive properties of concrete to reduce segregation & bleeding
- ◆ Improve trowel ability & surface finish
- ◆ Ready mix concrete where workability retention coupled with retardation in initial set
- ◆ Reduces the incidence of honeycombing and cold joints during vibrato.
- ◆ Reduce water contents would be of benefit to reduce permeability.

DOSAGE

The optimum dosage of ALFAPLAST RP 310 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.80 to 1.00 liters /100 kg of cementitious material.

TECHNICAL DATA

Appearance	Brown Liquid
Specific gravity	Typically 1.165 at 20°C ± 0.005
Chloride content	Nil to BS 5075 & BS:EN934-2
Air entrainment	Typically less than 2% additional air is entertained at normal dosages.
Alkali content	Typically less than 3.0 mg Na ₂ O equivalent/liter of admixture.

STANDARDS

ASTM C494	Type B
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 RP 310 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

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.

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. As the information herein 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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American Concrete Institute