



ALFAPLAST SPAE

Air entraining & water reducing agent for concrete

DESCRIPTION

ALFAPLAST SPAE is chloride free water reducing admixture and air-entraining admixture based on selected sugar-reduced lignosulphonates and surface active agents, it is supplied as brown solution which instantly disperses in water.

The surface-active agents in ALFAPLAST SPAE act at the interface between the mixing water and cement / aggregate particles to produce microscopic air bubbles, which are evenly distributed throughout the concrete.

USES

- ◆ To produce air entrained concrete for increased durability and resistance to damage by frost and de-icing salts.
- ◆ Typical applications, include concrete roads and bridge decks, airport runways and taxiways and other extensive areas of concrete exposed to potential frost damage.
- ◆ To improve stability and cohesion in extruded concrete.

ADVANTAGES

- ◆ Air entrainment increases the resistance of concrete to attack by frost and de-icing, to attack by frost and de-icing salts, reducing problems of surface scaling concrete failure.
- ◆ Entrained air bubbles assist in the formation of a stable cohesive mix, reducing segregation and bleeding.
- ◆ Air entrainment improves workability and helps produce a dense, uniform, close textured surface free from gravel nests and sand runs, further enhancing durability.
- ◆ Excellent air bubble stability allows use with a wide range of aggregate qualities and mix conditions.

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 SPAE 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 0.20 - 0.50 / 100 kg of cementitious material.

TECHNICAL DATA

Appearance	Brown Liquid
Specific gravity	Typically 1.155 at 20°C
Chloride content	Nil to BS 5075 & BS:EN934-2
Alkali content	Typically less than 5.0 g Na ₂ O equivalent/liter of admixture

STANDARDS

ASTM C260 & C494	Type B & G
BS 5075	Part 3

PACKAGING

Supplied in	Jerry Can / Drum
Storage	Dry, Frost free, out of direct sunlight
Shelf life	12 months, when stores as above
Hazard class	Water based and non-flammable

COMPATIBILITY

ALFAPLAST SPAE 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. 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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Certified member of:



American Concrete Institute