



# ALFAPLAST ANTIFREEZE

## Cold weather concrete admixture

### DESCRIPTION

ALFAPLAST ANTIFREEZE is a chloride free yellowish liquid admixture base on special liquids and salts, for producing high quality concrete at moderate low temperature working conditions.

### USES

ALFAPLAST ANTIFREEZE provides progressing of concrete working when suspending of concreting is necessary in risky cold or freezing following conditions:

- ◆ Slight daytime frost
- ◆ Expected overnight frost
- ◆ Expected cold periods

### ADVANTAGES

- ◆ Ready to use liquid accelerating admixture for cold weather concrete.
- ◆ Reduce setting times in general and specially under cold weather, leading to early high and ultimate increased strengths necessarily against freezing conditions
- ◆ Increase strength at early ages
- ◆ In addition;, it reduces bleed and segregation while improves workability
- ◆ Increased frost resistance
- ◆ Early stiffening - quicker finishing operatios
- ◆ Chloride free - does not attack reinforcement, safe for use in pre-stressed and reinforced concrete.
- ◆ Facilitates concreting even below 5°C
- ◆ Faster setting times - accelerated construction during cold climates

### 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 ANTIFREEZE 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	Transparent Yellowish Liquid
Specific gravity	Typically 1.24 - 1.28 at 20°C
Chloride content	Nil to BS 5075
pH value	7 - 10

### STANDARDS

ASTM C494-81	Type C
BS 5075	Part 1
WRC	Used in portable water

### PACKAGING

Supplied in	Jerry 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

ALFAPLAST ANTIFREEZE 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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American Concrete Institute