



**AL FALAH**  
CHEMICALS  
YOUR CHEMICAL PARTNER

# ALFAPLAST SC200

## Alkali-free, liquid shotcrete accelerator for sprayed concrete

### DESCRIPTION

ALFAPLAST SC200 liquid is a chloride free accelerating admixture. It is supplied as a beige solution, which is introduced through the spraying nozzle whose dosage can be varied to the desired setting and hardening times.

### USES

ALFAPLAST SC200 liquid is used in sprayed concrete, shotcrete and gunite processes for rapid setting such as:

- ◆ Temporary and permanent ground support in tunneling and mining
- ◆ Slope stabilization

### ADVANTAGES

- ◆ Rapid set allows fast build-up
- ◆ Minimum rebound
- ◆ Single pass spraying for thick coating
- ◆ Excellent for overhead surfaces
- ◆ Can be used for 'wet'; and 'dry' processes
- ◆ Non-flammable
- ◆ The unique product formulation provides fast setting, continuous early-age strength development high durability and good long term strength.

### APPLICATION PROCEDURE

The substrate should be clean and free from loose particles and preferably damp.

It is recommended to use only fresh cement as the age of the cement can have a negative influence on the setting characteristics of the mix.

ALFAPLAST SC200 can be sensitive to the type of cement. With some cements the setting time is delayed or sulphate resistant cement types. However, ALFAPLAST SC200 also works well with composite cement types (blended cements, fly-ash/slag).

### 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 dosage of ALFAPLAST SC200 depends on the temperature conditions (concrete and ambient), cement reactivity and on required layer thickness, setting time and early strength development. The consumption is normally in the range of 3 to 10% of binder weight.

**Overdosing (>10%) may result in decreased final strength.**

### TECHNICAL DATA

Appearance	Beige Liquid
Specific gravity	1.40 + 0.03 at 20°C
pH value	2.6 ± 0.5
Viscosity	>400 mPa.s
Thermal stability	+5°C to +35°C
Chloride content	Nil to BS 5075
Air entrainment	Nil

### PACKAGING

Supplied in	Drum / IBC Tank
Shelf life	12 months, when stored in dry, frost free conditions.
Hazard class	No dangerous goods, observe material safety datasheet.

### STORAGE

- ◆ Must be stored at minimum +5°C (optimum temperature for storage and performance +20°C).
- ◆ Has to be kept in closed containers made of plastic, glass fiber or stainless steel.
- ◆ **Must not** be stored in normal steel containers
- ◆ Storage in bulk tanks **requires** the use of agitation and / or circulation systems.
- ◆ After prolonged storage or transport we recommend to fully agitate it prior to use by mechanical stirring or re-circulation pumping.
- ◆ After prolonged storage, performance testing should always be carried out before use.

CONCRETE ADMIXTURES

SPECIAL ADMIXTURE

SURFACE TREATMENTS

GROUTS & ANCHORS

CONCRETE REPAIRS

INDUSTRIAL FLOORING

SHOTCRETE

WATERPROOFING

JOINT SEALANTS & WATERSTOPS

INDUSTRIAL ADHESIVES

## 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