

# Grandplast Shotcrete SS

## Concrete Admixture for Underwater Concreting

### Product Description

GRANDPLAST SHOTCRETE SS is used in sprayed concrete and shotcrete where rapid setting is required. It is supplied as a clear liquid which is introduced through the spraying nozzle whose dosage can be varied to the desired setting and hardening times.

### Customer Benefits

- Excellent for overhead surfaces
- Fast setting and high early strengths
- Secures rapid work progress – fast build up
- Single pass spraying for thick coating
- Minimizes rebound loss
- Can be used for wet and dry process
- Low consumption
- Low viscosity

### Recommended for

Principal applications are:

- Tunneling and mining
- Slope stabilization
- Repairs of concrete structures

### Dosage

#### Typical Dosage

The optimum dosage should always be determined by trials using the materials and conditions that will be experienced in use. Depending on the required setting, the consumption of GRANDPLAST SHOTCRETE SS ranges between 2 to 7% of the binder weight. Overdosing can cause increased reduction of final strength.

#### Effects of Overdosing

An overdose of double the intended amount of GRANDPLAST SHOTCRETE SS will result in increased setting of the mix before it reaches the surface to be sprayed. It will also result in a loss of strength.

### Properties

Form	Liquid
Color	Clear
Specific Gravity	1.38 ± 0.02 @ 25°C
Solubility in Water	Soluble
Air Entrainment	Nil

# Admixture

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## Application Procedure

### Substrate Preparation

The substrate must be clean and free from loose particles.

### Compatibility

GRANDPLAST SHOTCRETE SS is suitable for use with all types of Ordinary Portland Cements and cement replacement materials such as Fly Ash and Silica Fume.

### Dispensing and mixing

GRANDPLAST SHOTCRETE SS is normally introduced with a proportioning pump into the compressed air which is added at the nozzle.

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## Packaging

GRANDPLAST SHOTCRETE SS is available in 20 liter pail and 200 liter drum.

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## Storage

GRANDPLAST SHOTCRETE SS has a minimum shelf life of 12 months when stored in the original unopened containers under normal warehouse conditions in the dry state.

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## Health and Safety

GRANDPLAST SHOTCRETE SS is non-toxic. However, it should not be swallowed or allowed to come into contact with skin or eyes.

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.

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## Fire

GRANDPLAST SHOTCRETE SS is water based and non- flammable.

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### Important Note

The information contained in this leaflet is published to the best of our knowledge and is supposed by current available data. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. Our guarantee is therefore limited to the quantity of the supplied material.

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