

Struset® SPA

Powder Accelerator for Shotcrete

Uses

Struset SPA is used to provide a rapid set to sprayed concrete. This improves overhead spraying, permits thicker build in one pass and provides early support strength.

Advantages

- Rapid set
- Allows faster build and permits rapid overhead spraying
- Economic
- Minimizes rebound loss
- Tolerant
- Can allow spraying on surfaces subject to water ingress

Description

This product is a fine chloride free white powder which when added to a cement/aggregate dry mix and with the addition of water gives an accelerated set to the sprayed concrete.

Typical dosage

The optimum dosage of Struset SPA to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. Typical rate of addition is 3 to 7 kg of Struset SPA powder/100 kg of cement.

Properties

Appearance	White powder
Specific gravity	Typically 0.75 gr/cm ³
Chloride	Nil to BS5075

Instructions for use

Compatibility:

Struset SPA is compatible with other STRUMIX admixtures in the same concrete mix. The admixtures

must be added to the concrete separately with the mixing water and must not be directly mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by trial mixes to ensure the desired combination of effects is obtained. Struset SPA is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica. The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.

Dispensing:

Struset SPA powder is added direct to the blending hopper containing mixed cement & aggregate. Accelerator only begins to work once water is added at the nozzle.

Packaging

Struset SPA is available in 15 kg bags.

Storage

Struset SPA has a minimum shelf life of 12 months at 20°C if kept in a dry store in the original, unopened packs. The shelf life will be reduced at higher ambient temperatures.

Precautions

Health and safety:

Struset SPA powder is alkaline in saturated solution pH 13. Gloves and goggles must be worn. Prolonged contact with skin should be avoided and any material washed off with water immediately. Any accidental eye contamination should be washed with plenty of water and immediate medical attention should be sought. If swallowed drink plenty of water followed by diluted vinegar or lemon juice. The treatment should be completed by drinking milk or olive oil. Medical attention should be sought. For spillages, wash with water.

Fire:

Struset SPA powder is non-flammable.