

Non-caustic shotcrete admixture

Uses

- To enable a high build of sprayed concrete, shotcrete and gunite without slump.
- To provide set acceleration and reduce rebound

Advantages

- High build enables faster coverage with minimised slump.
- Can be applied upto 300mm in one application to vertical surfaces and upto 200mm overhead dependant on weight / volume of aggregate
- Non caustic leads to safer handling / operating conditions
- Low rebound - controlled set allows new material to be embedded in applied mortar
- Chloride free liquid
- 28 days strength not adversely affected

Standard compliance

Sprayset HBL meets the requirements of ACI 506-56 (recommended practice for shotcreting - Concrete society Specification for Sprayed concrete).

Description

Sprayset HBL is a chloride free liquid based on a blend of inorganic powders, which is added to a sprayed concrete mix to impart properties of high build and low rebound.

Technical support

Fosroc provides a technical advisory service for on-site assistance and advise on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Typical dosage

The optimum dosage for Sprayset HBL to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the concrete mix. A starting point for such trials is to use a dosage within the normal typical range of 5.0 litres/100 kg of cementitious material, including PFA, GGBFS or microsilica.

Use at other dosages

Dosages outside the typical range quoted above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact Fosroc for advice in these cases.

Properties

Appearance	A Turbid Liquid
Specific gravity	1.30 @ 27°C *
pH	2.0 *
Chloride content	Nil to BS 5075 *

* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered

Application instructions

Mixing and dispensing

A pumpable mix design is required to produce a high workability mix without risk of bleeding or segregation of aggregates. complast SP 430G8 shall be used to mould above concrete.

The correct quantity of Sprayset HBL is directly added to the concrete at the time of shotcreting

Sprayset HBL



Effects of overdosing

An overdose of double the intended amount of Sprayset HBL 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.

Estimating

Packaging

Sprayset HBL is available in 200 ltr, 250kg and 280kg.

Storage

Shelf Life

Sprayset HBL has a minimum shelf life of 6 months.

Storage conditions

Store in dry conditions in the original, unopened container. If stored at high temperatures, the shelf life may be reduced.

Precautions

Health and Safety

Sprayset HBL is non-caustic. It should not be swallowed or allowed to come into contact with skin or 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 Datasheet available for this product.

Fire

Sprayset HBL is non-flammable.

Cleaning and disposal

Spillages of Sprayset HBL should be hosed down with water.



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