



Sprayset HBL*

Non-caustic shotcrete admixture

Uses

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

Advantages

- High build enables faster coverage with minimized slump.
- Can be applied up to 300 mm in one application to vertical surfaces and up to 200 mm 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.

Its PH level is neutral.

Technical support

Fosroc provides a technical advisory service for on-site assistance and advice 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.

Properties

Appearance	: Pale brown liquid
Specific gravity	: 1.30 ± 0.05 @ 20°C
Chloride content	: Nil to BS 5075

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 optimization 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 typical range of 3.0 – 7.0 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.

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.

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.

The correct quantity of Sprayset HBL is added to the mixer simultaneously with the water.

Estimating

Supply

Sprayset HBL is available in 200 litre drums.

Storage

Sprayset HBL has a minimum shelf life of 6 months.

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

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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.

The Right Chemistry for Construction

Fosroc is one of the world's major manufacturers of advanced technology chemical based products for the construction and refurbishment industries. It operates internationally through a network of operating companies, licensees, distributors and agents.

Having over 70 years experience and using global resources for research and technical development, Fosroc has built a substantial worldwide reputation in manufacturing the most comprehensive range of high performance construction chemicals:

- Concrete admixtures
- Surface treatments
- Grouts and anchors
- Concrete repair
- Industrial flooring
- Protective coatings
- Joint sealants
- Waterproofing
- Adhesives
- F.R.P Structural Strengthening
- Specific building products

* Denotes the trademark of Fosroc International Ltd.



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service.

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