Sprayset HBL 28

constructive solutions

Alkali-free, liquid shotcrete accelerator for high early strength development

Uses

Sprayset HBL 28 is an alkali-free admixture used in shotcrete and gunite where rapid setting is required. Setting time and hardening time can be regulated with various dosages of Sprayset HBL 28.
Sprayset HBL 28 is designed in particular for temporary and permanent shotcrete as in:

- Tunnels
- Mining
- Rock consolidation

Preparation

Shotcrete should always be applied against a damp substrate cleaned of loose particles. The dosage pump has to be thoroughly cleaned with water prior to use with different accelerators. A mixture of previously consumed accelerator of different brand will cause blockage in the pump. Assigned personnel have to be instructed accordingly.

Advantages

- Alkali-free, improved working environment
- Low dust emission due to liquid form
- Rapid set allows thick sections to be built-up
- Minimum rebound
- Excellent for overhead application
- Can be used for ‘wet and dry’
- processes Non-flammable
- Wet and dry surface applicable
- Low effect on long term strength and durability
- Accurate dosage possible

Description

Sprayset HBL 28 is a low chloride, alkali-free accelerating admixture. It is supplied as a light white cloudy solution, which is introduced through the spraying nozzle or 4-5m behind the nozzle (injector).

Technical support

Fosroc provides a technical service for on -site assistance and advice on admixture selection, site trials and dispensing equipment. Technical data and guidance can be provided for admixtures, equipment, handling, mix designs and other products for fresh and hardened concrete.

Typical dosage

The dosage for Sprayset HBL 28 to meet a specific requirement must always be determined by trials using the materials and conditions that will be experienced on site. This allows optimization of admixture dosage and mix design whilst providing a complete assessment of the concrete mix. A starting point for such trials is to use a dosage within the typical range of 3–8% by weight of cement. Cement type and W/C ratio can influence the performance of Sprayset HBL 28

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Sprayset HBL 28

Use at other dosages

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

Properties

Form:	Aqueous solution
Appearance:	White cloudy liquid
Specific gravity:	1,41 – 1,47 kg/l
pH value:	1,5 – 3,5
Solids content:	53 to 59 %
Chloride content:	< 0.1%

Application instructions

Compatibility

Sprayset HBL 28 is compatible with other Fosroc admixtures for concrete. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture must be assessed by trial mixes to ensure that the desired combination of effects is obtained.

Dispensing

Sprayset HBL 28 is introduced to the nozzle or injector 4-5m behind the nozzle with any liquid dosage pump. Peristaltic dosage pumps are preferred over piston or membrane pumps for their accuracy and reliability. Sprayset HBL 28 can be added with most common shotcrete equipment and dosage pumps available.

Effects of overdosing

Over dosage of Sprayset HBL 28 should be avoided and is not recommended. In severe cases adverse effects can be, for example, hardening of concrete in the nozzle, poor long-term strength development, high rebound etc.

Packing

Sprayset HBL 28 is supplied in IBC or bulk

Storage

Sprayset HBL 28 has a shelf life of 6 months provided that the temperature is kept within the range of 5°C to 40°C. Before using Sprayset HBL 28 after storage it is recommended to roll the drum on the ground or to mix the bulk tank up before adding to the system. Adding an air-hose for agitation is not recommended!

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