

Expanplast* SLX LIQUID

Sprayed concrete and shotcrete admixture

Uses

Expanplast* SLX liquid is used in sprayed concrete, shotcrete and gunite processes for rapid setting.

Advantages

- Rapid set allows fast build-up
- Minimum rebound
- Single pass spraying for thick coating
- Excellent for overhead surfaces
- Can be used for 'wet; and 'dry' processes
- Non-flammable

Description

Expanplast* SLX liquid is a chloride free accelerating admixture. It is supplied as a light brown solution, which is introduced through the spraying nozzle.

Technical support

Expanchem Fospak 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 Expanplast* SLX Liquid 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 normal typical range of 3 - 9% of the 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 Fospak Expanchem Technical Services Department for advice in these cases.

Standard compliance

Expanplast* SLX Liquid compliance to ASTM C494 Type C, & ASTM C1141/1141M Class A, Type I/II Grade 9

Properties

Appearance	: Brownish liquid
Density	: 1.40 - 1.44 @ 20 °C
Air entrainment	: Nil

Instructions for use

Compatibility

Expanplast* SLX liquid is compatible with other Expanchem admixtures in the same concrete mix. 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 should be assessed by trial mixes to ensure the desired combination of effects is obtained.

Expanplast* SLX liquid is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS and silica fume.

Stiffening and set

Stiffening occurs approximately after 10 seconds.

Dispensing and mixing

The shotcrete mix is batched in concrete mixer and applied by means of screw or piston machine. Expanplast* SLX liquid is introduced with a proportioning pump into the compressed air which added at the nozzle.

Effects of overdosing

An overdose of double the intended amount of Expanplast* SLX liquid 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.

Packing

Expanplast* SLX liquid is available in 285 Kg. plastic drums and 1,420 Kg. IBC.

Storage

Expanplast* SLX liquid has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range then the Expanchem Technical Services Department should be contacted for advice.



CONSTRUCTION CHEMISTRY

Precautions

Health and safety

Expanplast* SLX liquid does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and 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 Data Sheet available for this product

Fire

Expanplast* SLX liquid is water based and non-flammable.

Cleaning and disposal

Spillages of Expanplast* SLX liquid should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

Data Sheet Revision Note:

Expanplast SLX Liquid data sheet is revised in December 2022, due to the change in raw material properties, and to up-grade the product performance, old data sheet is no more valid. (Revision Ref. SLX(Liquid) 02/DEC/22)

* Denotes the trademark registered

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