

# Expanplast\* SLX Powder



CONSTRUCTION CHEMISTRY

## Powder accelerator for sprayed concrete

### Uses

Expanplast\* SLX Powder 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

Expanplast\* SLX Powder 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.

### Technical support

Epanchem 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

Typical rate of addition is 2 kg of Expanplast\* SLX Powder/100kg of cement. The optimum rate should be found by site trials.

### Packaging

Expanplast\* SLX Powder is supplied in 15 kg bags.

### Instructions For Use

#### Application

Expanplast\* SLX Powder is added direct to the blending hopper containing the mixed cement and aggregate. The accelerator only begins to work once water is added at the nozzle.

### Caution

If moisture content of aggregate is above 3%, Expanplast SLX Powder should be added and blended immediately prior to spraying

### Overdosing

Expanplast\* SLX Powder can be used at rates up to 6kg/100kg cement Overdosing may lead to setting before the concrete reaches the surface. The long term strength of an accelerated mix may not attain control strength if high dosage is used.

### Storage

Expanplast\* SLX Powder 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 Epanchem Fospak Technical Services Department should be contacted for advice.

### Precautions

#### Health and safety

Expanplast\* SLX Powder 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.

In case of contact with skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advise, 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 Powder is non-flammable.

#### Cleaning and disposal

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.



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## Properties

Set time and rate of early strength gain.

Cement	Dose of SLX% Wt/Wt on Cement	B.S initial set		B.S final set ASTM initial set		ASTM final set	
		Mins	Sec	Mins	Sec	Mins	Sec
Type A OPC	2	1	45	6	00	16	30
	5	0	30	4	00	+90min	
SRPC	2	1	00	10	00	16	00
	5	0	30	17	00	+90min	
Slag Cement	2	1	30	17	30	65	00
	5	0	30	1	00	+90min	

Mix 3.1 sand: cement by wt. 0.45 water/cement ratio  
Development of penetration resistance using BS 4551 method

<b>BS</b>	Initial Set	0.5 N/mm <sup>2</sup>
	Final Set	3.5 N/mm <sup>2</sup>
<b>ASTM</b>	Initial Set	3.5 N/mm <sup>2</sup>
	Final Set	27.6 N/mm <sup>2</sup>

\* Denotes the trademark registered.

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