



# Supercast® SWX

## Problem solving gun grade hydrophillic and adhesive

### Uses

Supercast SWX can be used as an adhesive for bonding Supercast SW strips or as a problem-solving hydrophillic in difficult access areas including:

- Sealing around joints in precast manhole covers, cable ducts and pipes etc.
- Sealing around precast segments
- Sealing between rough surfaces, e.g. slurry walls and concrete slabs
- Sealing around H-beams and other penetrations through concrete structures
- Sealing around conventional rubber and plastic waterstops to provide 'belt or braces' seal prior to concrete pour.

### Advantages

- **Fast curing** : Enables early concrete pour and rapid return to service. Allows hand-applied concrete cover within 2 hours on emergency repairs and large-scale concrete pour after 8 hours.
- **Excellent seal on rough concrete**: Gives improved water tightness. Plugs inequalities in rough concrete to produce a tight seal.
- **Excellent adhesion**: Quick and easy to apply to a variety of damp and uneven joint surfaces remaining firmly in place during concrete pour.
- **Water swellable**: Expands by 200% producing a watertight compression seal.
- **Durable**: Excellent wet/dry cycling retaining elastomeric character and swelling performance due to high tolerance of the cementitious environment.

### Description

Supercast SWX is a grey, elastomeric water-swellable paste which is applied like a sealant. The hydrophillic properties of Supercast SWX display good consistency in swell rate during repeated wet/dry cycling. Expansion of the product on contact with water creates a positive pressure against the faces of the concrete joint, thus preventing the passage of water.

### Technical Support

Fosroc offers a comprehensive range of high performance, high quality, construction products all backed by a BS EN ISO9001 registered quality scheme. Fosroc offers a technical support package to specifiers and contractors which includes computer-aided design (CAD) standard details and technical advice from staff with unrivalled experience in the industry.

### Properties

<b>Form</b>	: Elastomeric water swellable paste
<b>Colour</b>	: Grey
<b>Tack-free time</b>	: Approx. 1 hour (@ 20°C/50% RH)
<b>Hardness Shore 'A'</b>	: 30
<b>Cure Rate</b>	: 3mm in 24 hours
<b>Swell Ratio (volume)</b>	: 200%
<b>Concrete pour</b>	: Allow between 2 to 8 hours (see 'Application instructions')

### Application instruction

#### Preparation

Remove all obvious loose debris and soil, moss and organic growth from the substrate. Supercast SWX can be applied to damp concrete but always ensure the surface is free from running water and brush away any standing or seeping water. divert running channels away from area before application.

#### Application

Cut conical top off cartridge end-thread, screw on nozzle and cut to required size. Place Supercast SWX into sealant gun and apply like a conventional sealant. Extrude a bead of not less than 15mm diameter onto the substrate, ensuring that there is no break in the bead.

#### Return to service

After application, allow 30 minutes before re-establishing any running channels. A minimum of 2 hours (depending on the ambient temperature conditions) should be allowed before applying hand-placed concrete and 8 hours is recommended for large concrete pours where there is no guarantee that concrete will not be poured directly onto the seal. Supercast SWX should be protected from heavy rainfall whilst curing to prevent premature expansion.

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## Limitations

Supercast SWX should not be used for expansion joining or for joints subject to significant repetitive movements. Supercast SWX should be positioned to ensure that there is a minimum of 70 mm concrete cover to accommodate pressure developed during the swelling process.

Supercast SWX will establish a firm bond to the concrete however, as with any hydrophilic waterstops, care should be taken during concreting to avoid pouring directly onto the seal.

**N.B.: Supercast SWX should not be used as a sealant in general building applications.**

## Estimating

### Supply

Supercast SWX	:	310ml gun cartridge
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### Coverage

Supercast SWX	:	Approx. 1.5 mts. when gunned to form a constant 16mm diameter bead, per 310 ml cartridge.
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## Storage

### Shelf life

9 months

## Storage conditions

Store in original unopened cartridge and cartons in cool, dry condition

## Precautions

### Health & Safety

Supercast SWX may cause sensitisation by skin contact. Avoid contact with skin and eyes. Wear suitable gloves and eye/face protection. Use only in well ventilated areas.

## Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair.

For further information on any of the above, please consult your local Fosroc office - as below.

† See separate data sheet

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## Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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