



# Fosroc Supercast SWX

## Problem-solving gun-grade hydrophilic and adhesive

### Uses

Supercast SWX can be used as an adhesive for bonding Supercast SW strips or as a problem-solving hydrophilic 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 and 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 hydrophilic 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 ISO 9001 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 (at 20°C / 50% RH)</b>	: Approximately 1 hour
<b>Hardness Shore 'A'</b>	: 30
<b>Cure rate</b>	: 3 mm in 24 hours
<b>Swell ratio (volume)</b>	: 200%
<b>Concrete pour (see 'Application instructions')</b>	: Allow between 2 to 8 hours

### Application instructions

#### 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 tip 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 15 mm 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 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 jointing 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 waterstop, care should be taken during concreting to avoid pouring directly onto the seal.

Note: Supercast SWX should not be used as a sealant in general building applications.

## Estimating

### Supply

**Supercast SWX** : 310 ml gun cartridges

### Coverage

Each 310 ml gun cartridge will provide enough material for approximately 1.5 metres when gunned to form a constant 16mm diameter bead.

## Storage

Shelf life: 9 months.

### Storage conditions

Store in original unopened cartridges and cartons in cool, dry conditions.

## Precautions

### Health and 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. For further information refer to Product Safety Data Sheet.

## 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 features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

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

\* Denotes the trademark of Fosroc International Limited

† See separate data sheet



## 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. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

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