

Fosroc® Supercast SWX

constructive solutions

Problem-solving gun-grade hydrophilic waterstop and adhesive

Uses

Supercast SWX can be used as an adhesive for bonding Supercast SW strips or as a problem-solving hydrophilic waterstop 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 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 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

Form:	Elastomeric water-swellable paste
Colour:	Grey
Tack-free time:	Approximately 1 hour (at 20°C / 50% RH)
Hardness Shore 'A':	30
Cure rate:	3 mm in 24 hours
Swell ratio (volume):	200%
Concrete pour:	Allow between 2 to 8 hours (see 'Application instructions')

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 10 mm diameter onto the substrate, ensuring that there is no break in the bead.

Apply a 15mm bead when using as an adhesive for Supercast SW10/20.

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.

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 50 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 product.

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

Fosroc® Supercast SWX

Estimating

Packaging

Supercast SWX is supplied in 310 ml gun cartridges, singly or in boxes of 20 cartridges.

Coverage

Each 310 ml cartridge will provide enough material for approximately 3.9 metres when gunned to form a constant 10 mm diameter bead, and 1.75 metres when gunned to form a constant 15mm 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.

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