

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 gun applied, grey, elastomeric water-swellable paste. 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.

Standards compliance

Supercast SWX is a BBA Approved Product, Certificate number 23/6936.

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':	10 - 15
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 - Concrete

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.

Preparation - Mild Steel

Ensure the steel is cleaned back to a minimum ST3 finish, free of any rust or mill-scale. Wipe the prepared substrate with Fosroc Solvent 102 to remove any residual contaminants. The substrate should be primed with Fosroc Primer 19. Empty the entire contents of the Fosroc Primer 19 hardener tin into the base tin, and replace base tin lid. Mix thoroughly by shaking tin for 2 minutes. Apply using a clean dry brush. Avoid over application of primer causing puddling. Supercast SWX should be applied between 30 minutes and 4 hours after priming. If Supercast SWX is not applied in this time-frame the primer film should be removed mechanically and the joint re-primed. The mixed Fosroc Primer 19 should be applied within one working day. Do not split packs of Fosroc Primer 19.



Fosroc® Supercast SWX

Application

Cut end off sachet and place in Fosroc GX Gun. Fit nozzle and cut at 45° to a suitable size. Extrude a bead of Supercast SWX not less than 12 mm diameter onto the substrate, ensuring that there is no break in the bead.

Apply a 12 - 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 as a joint sealant in general building applications.

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.

Estimating

Packaging

Supercast SWX is supplied in 600 ml sachets in boxes of 10.

Coverage

Supercast SWX (per 600ml sachet):

12mm diameter bead:	5.2 metres run
15mm diameter bead:	3.3 metres run

Storage

Shelf life

Shelf life of 9 months if kept in a dry store at 10 – 20°C in original unopened packaging. If stored at high temperatures and / or high humidity, the shelf life may be significantly reduced.

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.



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

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