



Triton TT Swellmastic S2

Hydrophillic waterstop and adhesive

Description

A grey, elastomeric, water-swellable paste which is applied like a sealant. The hydrophillic properties 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.

Uses

- Can be used as an adhesive for bonding waterbars or as a problem-solving hydrophillic 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 eg 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

Characteristics/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

Product Data

	Component A
Colour	Grey
Packaging	Supplied in boxes of 10 x 600ml sausage packs
Storage Conditions / 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.
Curing Rate	3mm in 24 hours
Swell Ratio:	200%
Shore A Hardness	10 – 15
Tack-free time:	Approximately 1 hour (at 20°C / 50% RH)
Concrete pour:	Allow between 2 – 8 hours (see application instructions)

Application instructions

Preparation:

Remove all obvious loose debris and soil, moss and organic growth from the substrate. **TT Swellmastic S2** 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 the area before application.

Application:

Cut conical tip off cartridge end-thread, screw on nozzle and cut to required size. Place **TT Swellmastic S2** into sealant or barrel gun capable of holding a 600mm foil sausage and apply like a conventional sealant. Extrude a bead of not less than 12mm diameter onto the substrate, ensuring there is no break in the bead.

Apply a 12-15 mm bead when using as an adhesive.

Return to Service:

After application, allow 30 minutes before re-establishing any running channels. A minimum of 2 hours (depending upon 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. **TT Swellmastic S2** should be protected from heavy rainfall whilst curing to prevent premature expansion.

Notes on Application / Limitations

TT Swellmastic S2 should not be used for expansion jointing or for joints subject to significant repetitive movements.

It should be positioned to ensure that there is a minimum of 50mm concrete cover to accommodate pressure developed during the swelling process.

It 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.

NB TT Swellmastic S2 should NOT be used as a joint sealant in general building applications.

Coverage

Per 600ml pack:

12mm diameter bead - 5.2 metres run

15mm diameter bead - 3.3 metres run

Health and Safety Information

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.

Triton Contact Details:

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