

TT SWELL MASTIC S2

Hydrophillic Waterstop
and Adhesive

A grey elastomeric
swellable hydrophilic
adhesive.



TT Swellmastic S2 is a grey, elastomeric, swellable system which is applied into a pre-formed rebate within the concrete construction joint or when used with **TT Waterstop**. **TT Swellmastic S2** swells when it comes into contact with moisture, preventing passage of water through concrete construction joints.

USES

- Fast curing.
- Sealing of joints in pre-cast manhole covers, cable ducts and service penetrations.
- Can be applied to rough surfaces.
- Sealing around H Beams or other steel columns which penetrate through concrete.

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.

TECHNICAL DATASHEET

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:

Prior to application of **TT Swellmastic S2**, all loose dirt, debris, soil, contaminants must be removed from substrate.

TT Swellmastic S2 should not be applied to wet concrete or other surfaces, especially where running water is present or the product will not work. Application to damp areas is acceptable.

Application:

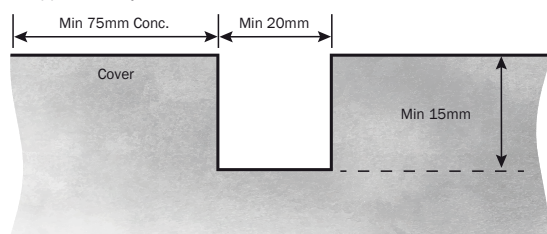
Cut conical tip off cartridge end-thread, screw on nozzle and cut to required size. Place **TT Swellmastic S2** into sealant or barrel gun capable of holding a 600mm foil sausage and apply like a conventional sealant. Extrude a bead of not less than 12mm diameter onto the substrate, ensuring there is no break in the bead. Apply a 12-15 mm bead when using as an adhesive.

Note: During the winter / colder months, if left out in the cold, **TT Swellmastic S2** may be harder to apply. To assist with the application, place the material in a warm bucket of water to soften but do not split or cut open the packaging. Do not leave the material in the warm water for too long but just long enough to soften for easy application through the barrel gun.

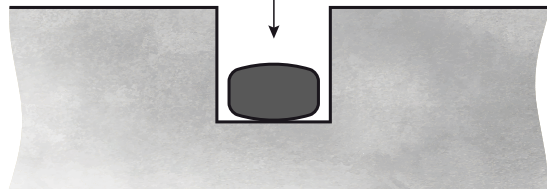
Return to Service:

A minimum of 2 hours (depending upon ambient temperature conditions) should be allowed before applying hand-placed concrete. **TT Swellmastic S2** should be protected from heavy rainfall whilst curing to prevent premature expansion. When placing concrete, please do not directly drop or pour concrete straight from pump line on top of the product until its initial set. This may dislodge the material from the construction joints.

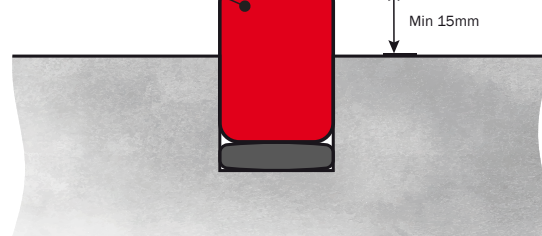
1. Cast chase in centre of wall section/joint section. Approximately 20mm x 15mm



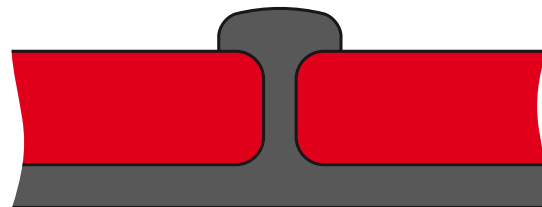
2. Min 10mm Bead TT Swellmastic S2 to base of chase



3. TT Waterstop adhered to chase of Swellmastic S2



4. Butt Joint option for TT Waterstop (within chase)



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LIMITATIONS

TT Swellmastic S2 MUST not be used in movement joints. Requires 50mm cover minimum from face of the concrete joint. When used with **TT Waterstop**, application of **TT Swellmastic S2** must be a minimum of 75mm.

Material must be replaced and re-applied if left out in wet conditions on-site. Material needs to be protected and kept as dry as possible.

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

Note: The coverage rates are a guideline. We have no control over excess application by the end user(s).

HEALTH AND SAFETY

Avoid contact with skin and eyes. Wear suitable gloves and eye/face protection. Use only in well ventilated areas.

For further information refer to Material Safety Sheet (MSDS).

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