

mart-SWELLSTRIP R

THERMOPLASTIC SWELLABLE WATERSTOP

DESCRIPTION

mart-SwellStrip R, a thermoplastic swellable Waterstop for waterproofing joints with excellent swelling capabilities.

CHARACTERISTICS/ADVANTAGES

- Rapid expansion.
- Easy to install by bonding, nailing or casting into joint faces.
- Suitable for fresh or salt water.
- Conforms to gap/joint variations which ensures excellent sealing.
- Sustains effective seal in wet conditions.
- Swelling properties unaffected by long term wet/dry cycling.
- Highly flexible and can absorb all deflection and movements in the structure during and post-construction.
- Cannot be flushed out.
- No on-site welding required as with conventional PVC Waterstops.
- Excellent for application onto rough or smooth concrete surfaces.

TYPICAL USES

- Concrete joints, old and new concrete construction of foundations, manholes, garages, curtain walls, water purification facilities, pipe penetrations, tunnels, and water deposits.
- **mart-SwellStrip R** can be used in situations where a conventional Waterstop would require complex shuttering.



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APPLICATION PROCEDURE

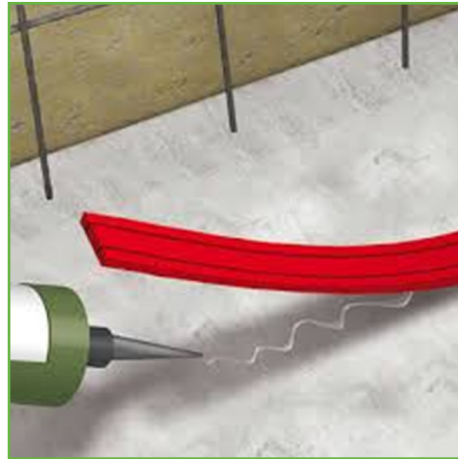
Surface Preparation:

- Surface must be clean, free of oil and grease, old caulk, dirt, dust & other foreign material.
- Remove all loose material and dust.
- Substrate may be damp prior to application but puddles of water must be avoided.



Application:

- Ensure that there is at least a 8cm coverage of concrete from side exposed to water.
- Apply a continuous line of contact adhesive on the substrate.
- While adhesive is still tacky, press **mart-SwellStrip R** onto the substrate, applying downward pressure along the strip to ensure full contact without stretching and putting tension in the strip.
- On rougher surfaces, greater pressure may be needed.
- Application on vertical and overhead surfaces should be nailed approximately every 250mm apart to eliminate potential dislocation caused by the weight of the strip.



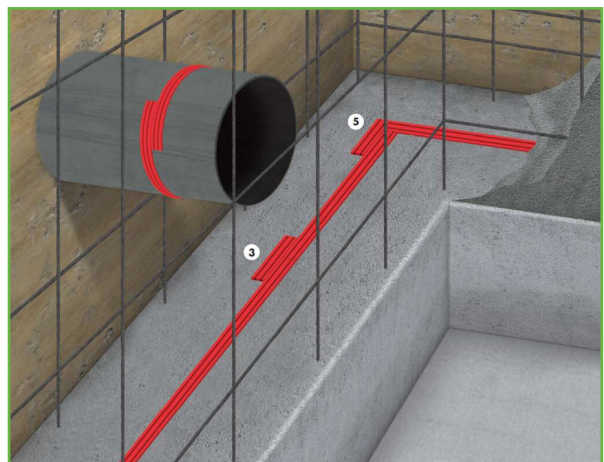
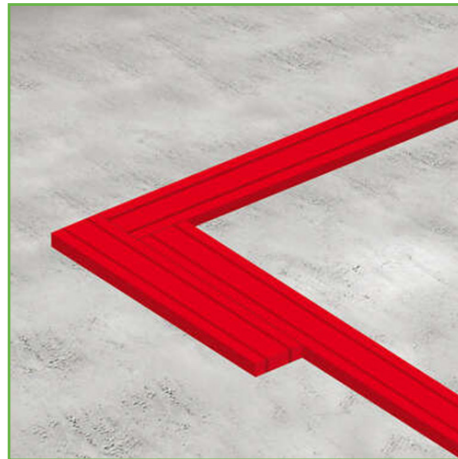
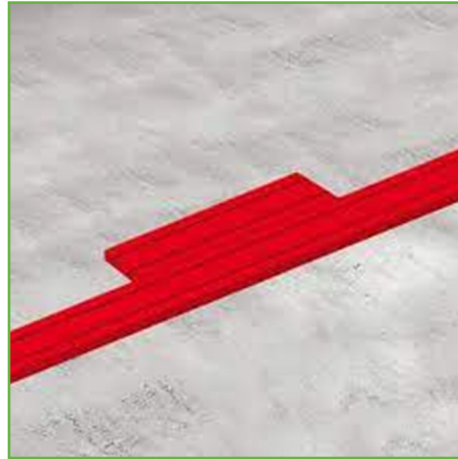
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Joints:

- DO NOT OVERLAP ENDS
- At joints and intersections, ends of **mart-SwellStrip R** must be brought together to create a neat butt joint with full face contact, knead to form a continuous line.
- With larger wall sections, butt joints are to be secured with a separate Waterstop tape on both sides overlapping on each side by minimum of 50mm.
- As an alternative waterstop tape connections can be carried out by overlapping by a min. of 50 mm. The waterstop tapes must lie securely against one another to prevent defects.
- Special attention must be given to corner joints with additional protection.



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CHEMICAL PROPERTIES:

mart-SwellStrip R is made up of modified thermoplastic elastomers Resistance against several chemicals, but we advise to be careful with aromatic oils and fuels, with vegetable oils and strong aromatic solvents.

Certified according to: DIN EN ISO 9001: 2015

	DIN/ Test Condition	Value
Density	-	Approx. 1.22g/cm ³
Swelling Capacity	7 d stored in distilled water	500%
	42 d stored under alkaline conditions	333%
	21 d stored under acidic conditions	243%
Swelling Pressure	-	Approx. 1.3 N/mm ²
Fire Classification	According to DIN 4102-1	B 2
Water Impermeability after Installation: Joint Width: 0.25mm	-	2.0 Bar
Toxicity	-	none

PACKAGING

- **mart-SwellStrip R** Roll size 5 mm x 20mm x 40 l/m

CLEANING AND STORAGE

- Remove excess uncured sealant from surfaces and tools immediately.
- Follow up with washing tools with soap and water.
- 12-month Shelf life if kept in the original packaging.
- **mart-SwellStrip R** must be stored in a dry place.
- Tape must lie flat and kept in its original packaging.

HEALTH AND SAFETY

- Contact with the skin should be avoided by wearing gloves, eye protection and protective clothing whilst application is in process.
- In case of eye contact flush eyes well with clean water and obtain medical advice immediately.
- Wash hands thoroughly after contact.

Disclaimer: The information contained in this document is given to the best of Mart Solutions' knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving Mart Solutions' liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. Mart Solutions specialists are at the disposal of the users in order to help them with any problems encountered.