

SwellproofX® 1

Hydrophilic waterstop

TECHNICAL DATASHEET

Status 04.08.2020

Item no.: S06412005
S06412010

PROPERTIES

The Polymer swelling tape **SwellproofX® 1** is a thermoplastic elastomer which is able to swell when coming into contact with moisture. It features a high resistance to tensile strength and an excellent elasticity.

When getting in contact with water the swelling increases its volume up to 250 %. The sealing effect is due to the linear increasing swelling pressure. The first swelling process is time delayed for about 72 hours. The swelling capacity is induced by special hydrophilic polymers, which are embedded inseparably in a polymeric carrier material (TPE). This swelling process is reversible.

Once installed, a significant shrinkage is not possible, it might be possible only by ventilation.

There is no risk for sealed construction elements exposed in varying groundwater levels.

The swelling capability of this tape will not be affected by any unevenness or roughness of the underground, but this unevenness could be equalized during the installation of the swelling tape if necessary by the **Polymer swellingpaste SX® 100**.

APPLICATION

The Polymer swelling tape **SwellproofX® 1** is used for sealing an ordinary construction joint between two concreting sections, but you will find its wide installation also in various constructions like shaft sinking and prefabricated constructions as well as in tubing constructions.

Due to its high resistance to acids, bases, organic solvents etc. the Polymer swelling tape **SwellproofX® 1** offers a large range of application possibilities (sewage plants, biogas plants, rain spillway basins, slurry tanks etc.).

SwellproofX® 1 SW is the variation particularly designed for saltwater. Special hydrophilic polymers ensure even in saltwater a controlled swelling process.

TECHNICAL DATA

Profiles:	20 x 5 mm - flat tape profile 20 x 10 mm - flat tape profile
Surface:	smooth
Consistence:	elastic
Color:	green, respectively grey
Swelling:	up to approx. 250 Vol. %
Temperature resistance:	-30°C/+60°C

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PACKAGING & STORAGE

20 x 5 mm - flat tape profile	20 m - coil	carton: 7 coils	(140 m)
20 x 10 mm - flat tape profile	10 m - coil	carton: 7 coils	(70 m)

SwellproofX® 1 must be stored in a dry place. Avoid mechanical damage.

INSTALLATION

The sub-surface must be even and free of loose particles and must not show any sharp-edged displacement. Before starting the installation ensure that ice coverings, standing water and cement sludge are removed.

The Polymer swelling tape **SwellproofX® 1** is positioned along the middle of the construction joint on top of the entire first section of concreting, running between the reinforcing rods, and fixed with the Contact adhesive **SuperX 1** or the **Polymer-swellingpaste SX® 100**.

During installation care should be taken to ensure that **SwellproofX® 1** is securely fixed in place and will remain so during concreting. Lightly pushing into the Contact adhesive **SuperX 1** ensures optimum fixing. Uneven surfaces can be smoothed with **Polymer-swellingpaste SX® 100**.

The minimal covering of concrete must be at least 8 to 10 cm on all sides. In places of transitions, overlaps and circuit points **SwellproofX® 1** has to be bonded in parallel minimum 10 centimetres.

ACCESSORIES

Item no. S06422005	SwellproofX® 1 20 x 5 mm SW L = 20 m
Item no. S06422010	SwellproofX® 1 20 x 10 mm SW L = 10 m
Item no. S02830290	Contact adhesive SuperX 1 cartridge 290 ml
Item no. S02830291	Contact adhesive SuperX 1 PLUS cartridge 290 ml
Item no. S02410290	Polymer-swellingpaste SX® 100 cartridge 290 ml

Note:

The information on this data sheet is based on our experience and given to the best of our knowledge, but is not legally binding. Recommendations, which are at variance with those stated in this data sheet, are only binding for us, when confirmed in writing. The manufacturer is not responsible for damages resulting from the misuse or incorrect storage of the product. For the accuracy of this information we are liable within the scope of our delivery and service conditions. Creation date: 08/2020