

Expansion Tape for Waterproofing

Product Description

SwellStrip is a thermoplastic expansion tape for waterproofing construction joints.

Characteristics/Advantages

- Simple application
- Dimensionally stable even at high temperatures
- Suitable for freshwater and saltwater
- Rapid expansion
- Self-injecting function by penetrating cracks and voids
- Swelling process is infinitely often repeatable
- Often reversible

Typical Application

SwellStrip is used for inside waterproofing of construction joints in concrete, which are exposed to permanent or temporary loads to ground water, run-off water and/or surface water.

Substrate Preparation

The substrate must be sustainable, mostly flat and a closed surface texture. It is essential that it is free from gravel pockets, cavities, gaping cracks, dust and be free from adhesion inhibiting substances. Sintering layers are to be removed by mechanical abrasion if necessary. During the application of **SwellStrip** the substrate may be matt damp, but puddles of water must be avoided.

Product Application

It is necessary to ensure that there is at least 8 cm coverage of concrete from the side exposed to water. **SwellStrip** bonds with a mounting adhesive suitable for waterstops. Completely cover the prepared substrate with the mounting adhesive and press **SwellStrip** into the adhesive until it oozes out from beneath. Earliest after 8 hours beginning to pour the concrete after bonding. Alternatively expansion tape can also be fixed with steel nails (min. 5 nails per meter). Ensure that the expansion tape makes complete contact with the substrate, avoiding the formation of loops.

Appearance

Colour: blue (green and red on request)
Format: square profile
Dimensions: 5mm x 20mm

Swelling capacity (lying in drinking water)

Increased weight approx. 50 % after 2 h
Increased weight approx. 305 % after 24 h
Increased weight approx. 480 % after 8 d

Dimension:

Approx. 5 x 20 x 150 mm by start
Approx. 7 x 23 x 160 mm after 2 h
Approx. 9 x 34 x 215 mm after 24 h
Approx. 10 x 40 x 243 mm after 8 d

Expansive pressure

Approx. 1,06 N/mm²

Fire classification

Class E (according DIN EN 13501-1)

Water impermeability after installation

Joint width 0,25 mm:	2,0 bar
Joint width 1,00 mm:	1,5 bar

Toxicity

None

Notes

SwellStrip must be stored dry. Make sure that the tape lies flat and planar on the concrete, without any contamination beneath **SwellStrip**. Before concreting protect **SwellStrip** from moisture and inspect the **SwellStrip** visually. Very swollen **SwellStrip** is not suitable and must be removed. **SwellStrip** is unsuitable for movement joints.

Storage

Maximum of 24 months – it is essential that goods are kept in the original packaging, kept frost free and dry, and protected from the weather.

Health and Safety

Refer to **SwellStrip** MSDS sheet

