

Swellseal Joint

Co-extruded, vulcanised hydrophilic expansive rubber strip for sealing concrete construction joints, pipe penetrations, joints in underground pre-cast elements.



• field of application

- Swellseal Joint can be used for:
- Sealing joints between concrete pre-cast-elements.
 - Sealing smooth cold and construction joints.
 - Sealing pipe penetrations.
 - Sealing block-outs.

• advantages

- Swellseal Joint has a proven track record in concrete structures subject to high water pressure.
- Reversible vulcanised rubber swelling strip in contact with water.
- Will not sag when correctly placed.
- Can be easily installed by nailing or glueing with Swellseal Mastic.
- Has a good all-round chemical resistance^(*) and can resist to petroleum, mineral and vegetable oils and greases.
- Swellseal Joint can also be installed between smaller pre-cast elements and/or joints where one expects smaller settlements.

• description

Swellseal Joint is a flexible co-extruded vulcanised strip made out of a combination of chloroprene rubber and a hydrophilic resin. The orange part has a swelling capacity of up to 600% in contact with water. The black part (= compression zone) has a swelling capacity of 150%. The ridged finish assures a better adhesion to concrete.

• application

1. Precautions

Swellseal joint can only function properly in a confined space in order to develop sufficient expansion pressure and assure waterproofing. The expansion of Swellseal Joint will create a certain pressure, which needs to be counteracted by at least 7 cm of concrete coverage at both sides (installation in the middle of the joint is preferred).

On smooth concrete

Roll off the Swellseal Joint between the inner and outer tie bars and nail down with a gun (4 to 5 nails per metre) or glue with Swellseal Mastic.

On rough concrete

Level out with Swellseal Mastic a strip of approx. 3 cm wide between inner and outer tie bars. Press Swellseal Joint firmly into the mastic. Eventual apply extra nailing (4 to 5 nails per metre). Install Swellseal Joint with smooth surface upwards. Installation during heavy rain or in prolonged contact with water can result in a premature swelling of the strip, which should be avoided.

• **technical data/properties**

Important

Roll ends are simply butted together to assure a waterproof seal. Do not install in overlap. The strip needs to be in contact with the joint over its full length.

Property	Value	Norm
Elongation at break (orange)	Approx. 675%	ASTM D412
Tensile strength	5 N/mm ²	ASTM D412
Hydrostatic pressure resistance	> 30 mCe	DNCC-IP-12
Hardness shore A	Approx. 50	ASTM D2240
Density	1,23 - 1,27 kg/dm ³	ASTM D412
Swelling capacity of compression zone (black) in contact with water	Approx. 1,5 V	ASTM-D471-75
Swelling capacity of hydrophilic zone (orange) in contact with water	Approx. 6 V	ASTM-D471-75
Swelling capacity of Swellseal Joint strip in contact with water	Approx. 4,5 V to 5 V	ASTM-D471-75

• **appearance**

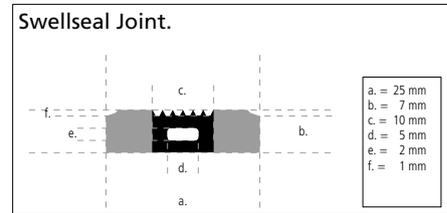
Hydrophilic expansive rubber strip with a ridged and a smooth side.

Colour

• orange – black – orange.

Dimensions

• 25 mm x 7 mm.



• **consumption**

The necessary quantities depend on the length of the various (construction) joints, which need to be sealed. Roll ends are simply butted together to assure continuous seal.

• **packaging**

Swellseal Joint
1 roll = 10 metres
1 cardboard box = 30 metres (3 x 10 metres)
1 pallet = 24 cardboard boxes = 720 metres
Weight = ± 8,25 kg/cardboard box gross (7,5 kg/cardboard box net)

• **storage**

Unlimited in a dry place in its original packaging.

• **health & safety**

For full information consult the relevant Material Safety Data Sheet.

(*) For chemical resistances, please contact your De Neef representative.