

# DE NEEF<sup>®</sup> SWELLSEAL<sup>®</sup> Joint

Hydrophilic Rubber Strip

## Product Description

SWELLSEAL<sup>®</sup>Joint is a vulcanized hydrophilic expansive rubber strip with a center pressure compensating tube for the sealing of concrete construction joints, pipe penetrations and joints in underground pre-cast elements. The flexible coextruded strip is a combination of chloroprene rubber and hydrophilic resin. SWELLSEAL<sup>®</sup>Joint has an inner pressure-balancing zone which is also hydro-expansive, ensuring a perfect seal. The orange shoulder has a swelling capacity of up to 540% in contact with water. The black compression zone has a swelling capacity of 100%.

## Product Advantages

- Proven track record in structures subject to high water pressure
- Non-sag when correctly placed around pipes and in vertical joints
- Easily installed by nailing or using SWELLSEAL<sup>®</sup> WA
- Chemically inert and resistant to petroleum, mineral and vegetable oils and greases
- Exerts the least amount of expansion pressure of the SWELLSEAL<sup>®</sup> preformed waterstop line
- Reversible swelling properties

## Product Application

- Sealing joints between concrete pre-cast-elements (inspection shafts, sewers, collectors)
- Sealing smooth cold and construction joints
- Sealing pipe penetrations and block-outs

## Properties

TYPICAL PROPERTIES		
Elongation at break	Black tube 610% Orange shoulders 670%	ASTM D412
Shore A Hardness	Black tube 53 Orange shoulders 50	ASTM D2240
Specific density	1.23-1.27	ASTM D471
Swelling capacity of black compression zone	50% (1 day) 100% (4 days)	ASTM D471
Swelling capacity of orange hydrophilic zone	220% (1 day) 540% (4 days)	ASTM D471
Tensile Strength Black tube Tensile strength	1,706 psi	ASTM D412
Orange shoulders	1,308 psi	
Appearance	Orange/black rectangular strip	

Dimensions

1" x 5/16" (25mm x 7mm)

**Note:** The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

## Packaging & Handling

1 roll SWELLSEAL®2010 = 32.8 ft (10 m).

1 case SWELLSEAL®2010 = 3 rolls (15 lbs).

Unlimited shelf life when stored in a dry place in its original packaging.

## Installation Guidelines

Prior to the installation of SWELLSEAL® Joint, the surfaces should be level, dry, clean and free of oils, dust and laitance.

SWELLSEAL®Joint can only function properly in a confined space in order to develop sufficient expansion pressure and ensure waterproofing.

The expansion of SWELLSEAL®Joint will create pressure, which needs to be counteracted by at least 3 3/4" of concrete cover on all sides (installation in the middle of the joint is preferred between the rows of rebar). SWELLSEAL®Joint can be applied on both smooth and rough concrete.

### On smooth concrete:

Roll the SWELLSEAL®Joint between the inner and outer rebar and nail down with a gun (4 to 5 nails per yard) or use SWELLSEAL®WA.

### On rough concrete:

Gun SWELLSEAL®WA in a 3/8" bead between inner and outer rebar. Press SWELLSEAL®Joint firmly into the mastic or epoxy. For vertical applications, apply extra nailing (4 to 5 nails per yard).

Install SWELLSEAL®Joint with smooth surface upwards. Installation during rain or in prolonged contact with water can result in a premature swelling of the strip, which should be avoided.

If SWELLSEAL®Joint is exposed to water prior to encapsulating in concrete, the strip must be allowed to dry and shrink back to its original configuration. Roll ends are simply butted together to ensure a waterproof seal. Do not install in overlap. The strip needs to be in contact with the joint over its full length.

## Health and Safety

Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest. Refer to SDS (Safety Data Sheet) for detailed safety precautions. SDS's can be obtained from GCP Applied Technologies or from our web site at [gcpat.com](http://gcpat.com).

## Limitations

Requires 3 3/4" concrete cover on all sides. Avoid installation during heavy rain. Use only in tight joint applications such as between precast members or poured concrete.

[ca.gcpat.com](http://ca.gcpat.com) | North America customer service: 1-877-4AD-MIX (1-877-423-6491)

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