

# SWELLSEAL<sup>®</sup> 2010 TPR Data Sheet

Hydrophilic Rubber Strip

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## Product Description

SWELLSEAL<sup>®</sup> 2010 TPR is a non-vulcanized hydrophilic waterproofing strip made from an elastomer and a hydrophilic resin. It has a swelling capacity of 200%, and when confined will swell in contact with water to seal the joint against leaks. A feature of the composition is delayed swelling when in contact with water, making Swellseal 2010 TPR ideal for in situ concrete installations.

## Product Advantages

- Proven track record in concrete structures subject to high water pressure
- Reversible swelling properties
- Non-sag when correctly placed around pipes and in vertical joints
- Easily installed by nailing or using SWELLSEAL WA<sup>®</sup> or DENEPOX<sup>®</sup> GEL 125
- Chemically resistant\*Chemical resistance chart available upon request

## Applications

- Sealing cold and construction joints
- Sealing pipe penetrations
- Sealing joints between precast elements
- Sealing vertical construction joints

## Properties

### Typical Properties

|   |  |            |
|---|--|------------|
| Elongation at break                     | Approx. 220%   | ASTM D412  |
| Shore A Hardness                        | 50   | ASTM D2240 |
| Specific density                        | 1.2  | ASTM D471  |
| Swelling capacity in contact with water | 200% (10 days)   | ASTM D471  |
| Water Pressure Resistance               | 100 psi  | DNCC       |
| Tensile Strength                        | 218 psi  | ASTM D412  |
| Apperarance                             | Black rectangular strip of hydrophilic resin and elastomer |            |
| Dimensions                              | ⅜" x ¾" (10mm x 20mm)                                      |            |

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 TPR = 32 ft (9.75m)
- 1 case SWELLSEAL® 2010 TPR = 5 rolls
- Unlimited in a dry place in its original packaging.

## Installation Guidelines

Prior to the installation of SWELLSEAL® 2010 TPR, the surfaces should be levelled, dry, clean and free of oils, dust and laitance.

SWELLSEAL® 2010 TPR can only function properly in a confined space in order to develop sufficient expansion pressure and assure waterproofing.  
The expansion of SWELLSEAL® 2010 TPR will create pressure, which needs to be counteracted by the proper concrete coverage. The required concrete coverage varies from 3.25 in (8.26 cm) – 4.0 in (10.16 cm) on all sides depending on concrete strength.

| Concrete Strength (psi)   | 2550       | 2982        | 3408        | 3834          | 4260           |
|---------------------------|------------|-------------|-------------|---------------|----------------|
| Minimum Concrete Coverage | 4" (100mm) | 3.7" (90mm) | 3.5" (89mm) | 3.48"(88.4mm) | 3.28" (83.3mm) |

SWELLSEAL® 2010 TPR can be applied on both smooth and rough concrete.

### On smooth concrete:

Roll the SWELLSEAL® 2010 TPR between the inner and outer rebar and nail down with a gun (4 to 5 nails per yard) or fix horizontally with SWELLSEAL® WA or DENEPOX® GEL 125.

### On rough concrete:

Gun SWELLSEAL® WA or DENEPOX® GEL 125 in a 3/8" (10mm) bead between inner and outer rebar. Press SWELLSEAL® 2010 TPR firmly into the WA or DENEPOX® GEL 125 . As SWELLSEAL® 2010 TPR is heavy in long strips, especially in vertical applications, apply extra concrete nailing (4 to 5 nails per yard). Install SWELLSEAL® 2010 TPR with the 3/4" (20mm) 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® 2010 TPR is exposed to water prior to encapsulating in the concrete, allow to dry and shrink back to its original configuration. 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.

## 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 Safety Data Sheet (SDS) for detailed safety precautions. In the event of an EMERGENCY call: CHEMTREC 800-424-9300.

## Limitations

For concrete cover of less than 4 in (101.6mm), refer to the Installation Procedures for concrete strength requirements. Avoid installing product during heavy rains.

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