SWELLSEAL® 2010 TPR Data Sheet

Hydrophilic Rubber Strip

Product Description

SWELLSEAL® 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® or DENEPOX® 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
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 inches – 4.0 inches on all sides depending on concrete strength.

Concrete Strength (psi)	2550	2982	3408	3834	4260
Minimum Concrete Coverage	4"	3.7"	3.5"	3.48"	3.28"

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" 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" 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 inches, refer to the Installation Procedures for concrete strength requirements. Avoid installing product during heavy rains.

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GCP Applied Technologies, 20 Moores Road, Malvern, PA 19355, USA.
GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

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