

TECHNICAL DATA SHEET

Swellseal® 2010

DESCRIPTION

SWELLSEAL® 2010 is an extruded, vulcanized hydrophilic expansive rubber strip for the sealing of concrete construction joints, pipe penetrations, joints in underground pre-cast elements.

TECHNICAL SPECIFICATIONS

| Test Method | Typical Value | Property Cured 7 days @ (22°C) 9.6mm |
|-------------|-------------------------|--|
| ASTM D412 | 600% approx | Elongation at break |
| ASTM D2240 | 52 | Shore A Hardness |
| ASTM D471 | 1.23-1.27 | Specific density |
| ASTM D471 | 100% (10 days) | Swellable capacity in contact with water |
| DNCC | 1958kPa | Water pressure resistance |
| ASTM D2240 | 10293kPa | Tensile strength |
| Appearance | Black rectangular strip | |
| Dimensions | 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.

PRODUCT APPLICATION

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

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
- Chemically resistant
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PACKAGING & HANDLING

- 9.75m. 8 rolls per box

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

INSTALLATION GUIDELINES

SWELLSEAL® 2010 can only function properly in a confined space in order to develop sufficient expansion pressure and assure waterproofing.

The expansion of SWELLSEAL 2010 will create pressure, which needs to be counteracted by the proper concrete coverage. The required concrete coverage varies from 75mm – 100mm on all sides depending on concrete strength.



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

| | | | | | |
|---------------------------|-------|-------|-------|-------|-------|
| Concrete strength kPa | 17581 | 20560 | 23497 | 26434 | 29371 |
| Minimum concrete coverage | 100mm | 94mm | 89mm | 88mm | 83mm |

Application method:

Smooth concrete:

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

Rough concrete:

Gun SWELLSEAL® WA in a 9mm bead between inner and outer rebar. Press SWELLSEAL® 2010 firmly into the WA. As DE NEEF SWELLSEAL 2010 is heavy in long strips, especially in vertical applications, apply extra concrete nailing (4 to 5 nails per metre). Install SWELLSEAL® 2010 with the 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 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 regulations during use. Avoid eye and skin contact. Do not ingest. Refer to Safety Data Sheet (SDS) for detailed safety precautions. SDS's can be obtained from NURALITE or from our web site at www.nuralite.co.nz

LIMITATIONS

For concrete cover of less than 100mm, refer to the Installation Procedures for concrete strength requirements. Avoid installing product during heavy rains.

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.