

TECHNICAL DATA SHEET

DESCRIPTION

SWELLSEAL® WA is a single component gun grade hydrophilic waterstop, designed for sealing smooth to very irregular construction joints and pipe penetrations. SWELLSEAL® WA is supplied in cartridges or sausages. Material cures and swells in the presence of moisture or water. Curing time is dependent on temperature and humidity, i.e. curing time will decrease if temperature and relative humidity are higher. SWELLSEAL® WA will become firm in 24-36 hours.

TECHNICAL SPECIFICATIONS

Technical Specifications	Unit of Measurement	Volume	Volume
UNIT SIZE	ml	310 cartridge	620 sausage
WEIGHT	gm	529	945
COLOUR		Grey	Grey

Test Method	Typical Value	Property
	3.2mm	Vertical slump
	6-10 hrs	Skins over
ASTM D93	>130°	Flash point
Test Method	Typical Value	Property
ASTM D3574	625%	Elongation at break
ASTM D412	2151.16 kPa	Tensile strength
DNCC	>100.5m	Resistance to hydro-static pressure
DNCC	200%	Swellable capacity in contact with water
	Grey	Appearance

COVERAGE

	Bead	Coverage
310ml	6.4mm	7.6m - 10.6m
	8.0mm	3.6m - 4.6m ¹⁰
	9.5mm	3m approx
620ml	6.4mm	15m - 21m
	8.0mm	7m - 9m
	9.5mm	6m approx

PRODUCT APPLICATION

- Sealing rough and smooth construction joints of cast in-place or precast concrete in wet and underwater applications.
- Sealing joints in pre-cast segments in wet or underwater applications (e.g. manholes, box culverts, cable ducts and pipes)
- Sealing joints between sheet piles.
- Creating good contact between Hydrophilic Waterstop Strips and rough concrete surfaces.

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Swellseal® WA

PRODUCT ADVANTAGES

- Solvent free
- Can be applied to wet surfaces or underwater when concrete is poured within 6 hours
- Adheres to concrete, PVC, HDPE, steel, & fiberglass
- Expands to more than 200% of original cured volume
- Flexible system, adapts to irregular surfaces
- Easy application with standard caulking guns
- Good chemical resistance.

PACKAGING & HANDLING

- 310ml cartridge. 12 per box
- 620ml sausage. 12 per box

Store in dry area for up to 12 months from date of production at temperatures between 4.5°C and 30°C for best performance. See shelf life details on the material packaging.

INSTALLATION GUIDELINES

SWELLSEAL® WA should be applied onto a dust-free concrete surface. The surface can be rough or smooth, moist or dry.

Application method:

310ml Cartridges: Use a heavy duty single cartridge gun. Screw on the nozzle and cut diagonally at the appropriate position.

610ml Sausages: Put the sausage in the empty tube of the bulk caulking gun and cut 3.0mm on the top of the sausage. Close the tube and install the nozzle. Nozzles are supplied with the appropriate opening.

SWELLSEAL® WA must be applied in an uninterrupted band (minimum 9mm bead), gunned in the middle of the joint or precast element. Concrete cover must be at least 75mm on all sides, in order to avoid cracks from the pressure of material swelling.

If SWELLSEAL® WA is to be installed under water or during heavy rain, the concrete operation should begin within 2 hours of application to provide confinement for the material or premature swelling may result lowering the effectiveness of the material.

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

SWELLSEAL® WA must be fully coned on all sides to perform properly. When used in precast or joints, minimum concrete cover is 75mm on all sides.



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If unconfined, material may expand much greater than 200% and develop an open celled structure, which may result in leaks.

SWELLSEAL® WA is not suitable for surface caulking applications.

When applied at temperatures below 4.5°C, the material will have a significant cure time, possibly exceeding several days.

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.

Swells seal® WA