

SRP STPE SEALANT

SRP AirOutshield™

High-Performance Building Envelope Sealant and Liquid Flashing

DESCRIPTION

SRP STPE SEALANT is designed for use in building envelope systems, including air/vapour barrier membranes, flashings, roofing, and waterproofing systems. It serves as a high-performance alternative to silicone and urethane sealants. The sealant provides a highly flexible seal (+/- 50% movement capability), with no shrinkage and excellent adhesion to common substrates, including concrete, masonry, wood, metal, and common air/vapour and roofing membranes. Its UV-stable hybrid formulation provides exceptional adhesion, durability, and long-term performance across a wide range of climate conditions. Free of isocyanates and solvents, **SRP STPE SEALANT** will not shrink, discolor, or emit strong odors. Compatible for use with SRP AirOutshield air barrier and flashing products.



USES

SRP STPE SEALANT is designed for use within air barrier, flashing, roofing, and waterproofing systems, ideal for detailing terminations, penetrations, transitions and joints. It serves as a high-performance alternative to silicone and urethane sealants, accommodating joint movement. The sealant offers excellent adhesion to common substrates including concrete, masonry, and compatible membranes.

EXPANSION JOINT DESIGN

It is advised to maintain a width-to-depth ratio of 2:1, with a maximum sealant depth of ½ in. (13mm), to ensure optimal flexibility and durability. Backer rod should be used where necessary to prevent three-sided bonding. Any new concrete control joints and expansion joints, whether tooled or saw cut, must be clean of contaminants and allowed to cure for at least 72 hours before sealant application.

SURFACE PREPARATION

Clean the substrate thoroughly to ensure it is sound and free of bond-breaking materials, including oil, grease, mold, surface water, coatings, sealers, and loose debris. For best results, the surface should be roughened with an abrasive disc or sandpaper and then wiped clean with an appropriate solvent compatible with the substrate, where required. Use tape to protect adjacent areas.

APPLICATION

Cut the end of the nozzle to match the width of the joint. Utilize a suitable tool to puncture the inner foil seal. Both the nozzle opening and foil seal are sufficiently large to allow for adequate flow. A smaller opening may result in excessive back pressure, potentially compromising the integrity of the rear seal. Insert the cartridge into a caulking gun. For smoother and more efficient sealant flow, use a high-quality caulking gun with an 18:1 thrust ratio. Position the nozzle at the bottom of the joint or designated application area to prevent the entrapment of air during placement. Maintain the nozzle immersed in the material throughout the application process. Apply the sealant with consistent pressure, ensuring a uniform and continuous bead. Care should be taken to maintain a smooth application process. If tooling or smoothing of the sealant is necessary, it should be performed within 15 minutes of application. The recommended application temperature is 2°C to 38°C (35°F to 100°F).

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PRODUCT BENEFITS

- High-performance adhesion
- Primerless adhesion to many common substrates
- Weather-resistant
- Low odor
- Bonds to a wide range of substrates, including damp surfaces
- Isocyanate-free

COLD WEATHER

Low temperature application 2°C to 16°C (35°F to 60°F) will extend cure time. To ease flow and placement, warm and keep sealant at 21°C (70°F) 24 hours prior to application. Remove dew, frost, or ice from the substrate with acetone on a clean cloth and place sealant immediately.

WARM WEATHER

Warmer temperature application 27°C to 38°C (80°F to 100°F) will not adversely affect sealant performance. Warmer temperatures will decrease viscosity and shorten cure time.

PACKAGING

Product Code: SEA01

Product Size: 10.1 fl. oz. (300 mL)

Packaging: 12 cartridges per case

PHYSICAL PROPERTIES

Attribute Name	Test Method	Value
Cure Rate	ASTM C679	5.06 mm/day
Specific Gravity	ASTM D1475	1.44 g/mL
Extrusion Rate	ASTM C1183	28 g/30 s
Tack Free Time	ASTM C679	35 minutes
Rheological Flow	ASTM C639	Non-Sag
Tensile Elongation	ASTM D412	>500%
Tensile Strength	ASTM D412	0.90 N/mm ²
Tear Strength	ASTM D624	3.98 N/mm
Shore A – Hardness	ASTM D2240	28
Volatile Organic Content	ASTM D2369	<16 g/L
Elastomeric Joint Sealants	ASTM C920	Type S, Grade NS, Class 50, uses NT, T2, M, G, A, and O
Canadian Standards Board	CAN 19.13-M-82	Meets or exceeds requirements
Colour		Gray

STORAGE & SHELF LIFE

Store in the original, unopened container in a cool, dry area. Protect from water, heat, and direct sunlight. Store at 4°C to 27°C (40°F to 80°F). Elevated temperatures will reduce shelf life. Shelf life is 24 months from the date of manufacture when properly stored.

SAFETY

Refer to the **SRP STPE SEALANT** Safety Data Sheet (SDS), available at www.SRPAirOutshield.com.

Warranty: The information, and in particular, the recommendations relating to the application and end-use of SRP AirOutshield products, are given in good faith based on SRP AirOutshield's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed on the Internet under www.SRPAirOutshield.com