

# W-SA-SI Series

**Pre-compressed Joint Sealant  
Silicone Coated, Polyurethane Foam,  
Waterproofs Vertical Applications**

**PRIMARY USES**  
Primary Construction Joints  
Vertical/Horizontal Movement Joints  
Exterior Panel Systems

## DESCRIPTION

- W-SA-SI is a premium quality joint sealant composed of an open micro-cell polyurethane foam impregnated with a hydrophobic, polymer sealing compound
- Coated with a colored elastomeric layer of silicone.
- Developed to waterproof most larger vertical and horizontal construction movement joints or joints anticipating seismic movement.
- Provides a watertight, dustproof, airtight, UV stable, chemically resistant, sound-proof, and insulated urethane primary seal.
- Works under its own constant internal pressure to provide a permanent, watertight seal eliminating costly water damage, as well as allowing for a greater degree of joint movement.
- Once W-SA-SI is installed in the joint, the material adapts to the width of the joint and the irregularities of the substrate provided such profile changes are not sudden or extreme.
- Developed to meet all applicable standards for pre-compressed sealants.
- Permanently resilient; the material will expand and contract with the movement of the joint under any weather condition.
- Standard Colors: Dow Corning®790. Custom colors available upon request.
- Available Sizes (Joint Width)  
\*Sticks: 1/2" to 8"  
\*(custom sizes available upon request)



## ADVANTAGES

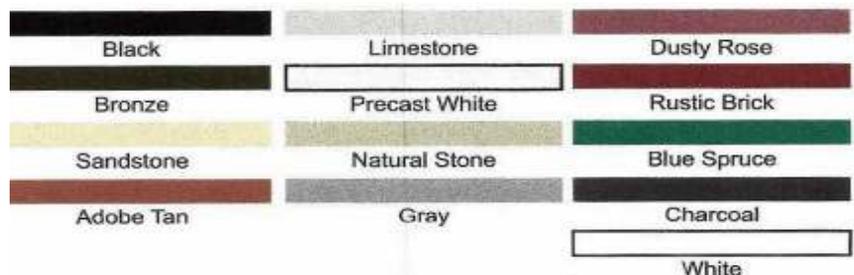
- Can accommodate rapid rates of joint movement.
- Supplied in pre-compressed state for ease of installation
- Does not rely on silicone coating or the adhesion of a field applied bead of sealant to provide a watertight seal.
- Consistent depth of product.
- Excellent compression recovery.
- Permanently elastic and weather-tight
- Used for joints up to 8" wide
- Allows for up to 100% (±50%) movement.
- Not based on asphaltic or bitumastic impregnation.

## APPLICATIONS

- Primary construction joints
- Vertical or horizontal movement – Expansion, control, and isolation joints.
- Retrofit joints.
- Pre-cast concrete walls — Tilt-up walls.
- Exterior Panel Systems — Masonry, granite, metal, EIFS, and curtain walls.
- Other joint requiring a resilient, waterproof seal.
- Ideal for larger joints that require an architectural finish.

## DOW CORNING® 790

- Actual colors may vary. See Dow Corning®790. Color Chart for exact color match.



# W-SA-SI Series

## SPECIFICATION

Sealant shall be W-SA-SI as provided by Architectural Art Manufacturing. Sealant shall be a closed cell, stabilized polymer material with a silicone joint sealant on the exterior face. W-SA-SI shall be installed in the joint in a pre-compressed state and shall provide a watertight joint. When compressed to 50% of its fully expanded size, W-SA-SI must provide a watertight joint. The manufacturer shall furnish a Certificate of Compliance with these requirements.

## TYPICAL PHYSICAL PROPERTIES

Thermal Conductivity		0.05 W/m.°C
Tensile Strength		-40°F (-40°C) to 185°F (85°C)
Ultimate Elongation	ASTM 3574	21 psi min.
Tensile Elongation	ASTM 3574	125% ±20%
Resistance to Compression Set		Max 2.5%
Shear Strength		Min 8N/cm <sup>2</sup>
Mildew Resistance		Excellent
Staining		None
Flammability	UL 94VO Meets CAL 117	Self-Extinguishing
Flash Point		590°F (310°C)
Durometer Hardness	ASTM D2240	Shore A 15pts

## LIMITATIONS

- Joints must be sized by measuring every 5-7ft. (1.524 — 2.137 meters) to ensure gap opening is uniform and depth is sufficient for the supplied material.
- Do not install when substrate or ambient temperatures are below -14°F (-25°C) or above 95°F (35°C).
- Will not adhere to surfaces contaminated by oil or grease.
- If ambient storage temperatures are below 50°F (10°C), store material at a minimum of 68°F(20°C) for a minimum of 24 hours prior to installation, regardless of temperature at location of installation.
- Store material in a dry, enclosed area, off the ground, and out of direct sunlight. Do not install when raining or snowing.

## NOT INTENDED FOR

- Joints submerged in water
- Joints in contact with harsh chemicals
- Joints in roofing applications
- Joints requiring pick resistance
- Cross joints in copings and projecting stone work

## INSTALLATION

### PREPARATION

- Verify that the joint is clean, sound, and will provide an appropriate surface for installation of the joint sealant.
- Check material for the appropriate lengths, widths, and depths.
- Prepare the material for seams and proper lengths.

### INSTALLATION

- Run a ¼" bead of the supplied silicone adhesive along both sides of the joint approximately ½" – ¾" back from substrate surface.
- When fully prepared to install, open the sealant material by removing the shrink packaging and Masonite strapping.
- Remove the release liner on both sides of the material
- Insert the material into the joint while pressing the material against the side of the joint, activating the PSA (Pressure Sensitive Adhesive).
- Tool the silicone over all seams and transitions to allow for a clean, aesthetic finish.

### CLEAN UP

- Remove any excess silicone left on the surface of the material or substrate.
- Remove all waste materials from the jobsite.
- Do not reuse waste material.
- Leave site to the satisfaction of the owner/architect.

#### Limited Warranty

Architectural Art Mfg., a division of Pittcon Architectural Metals, LLC, warrants to its purchaser that all its products will be free of material or manufacturing defects for one (1) year. Any claim brought to the attention of Architectural Art Mfg., a division of Pittcon Architectural Metals, LLC, by the customer in writing; within one year of substantial completion will be examined. If the product has failed under the terms of the warranty, it will be replaced or repaired free of charge. Architectural Art Mfg., a division of Pittcon Architectural Metals, LLC, will not be responsible for installation costs involved in such replacement or repair, consequential or other damages of any nature. This is in lieu of all other warranties expressed or implied and is the sole warranty extended.

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