

# W-SF-SI Series

**Compressible Joint Sealant**  
**Silicone Coated, Closed Cell Foam,**  
**Waterproofs Vertical & Horizontal Applications**

**PRIMARY USES**  
**Primary Horizontal Joints**  
**Highway Longitudinal/ Transverse Joints**  
**Parking Structure Expansion Joints**

## DESCRIPTION

- W-SF-SI is composed of closed cell, stabilized polymer material coated with a colorized, elastomeric layer of silicone.
- Developed to perform under extreme conditions such as those found in vertical and horizontal applications including seismic and parking structure joints.
- Impermeable closed cell foam backer and silicone face act as a dual sealant which provides a watertight seal and an aesthetic, colorized finish superior to silicone or urethane strip seals.
- 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 the W-SF-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 compressible 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 12"  
\*(custom sizes available upon request)



## ADVANTAGES

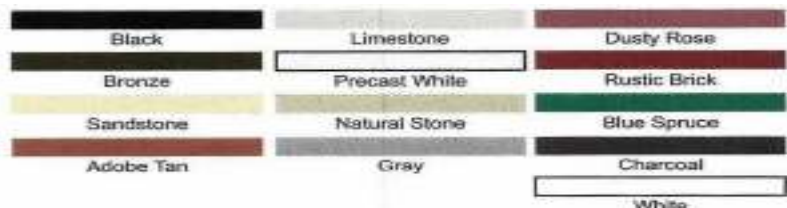
- Can accommodate rapid rates of joint movement.
- Made from a monolithic piece of foam that will not delaminate like multi-layer products
- Does not rely on silicone coating or the adhesion of a field applied bead of sealant to provide a watertight seal.
- Not subject to adhesive or cohesive failure
- Consistent depth of product
- Used for joints up to 12" wide
- Allows for up to 50% (±25%) movement
- Can be permanently bonded to the joint substrate

## APPLICATIONS

- Primary horizontal joints
- Control Joints
- Below grade applications
- Highway longitudinal and transverse joints
- Parking structural expansion joints
- Seismic, large or retrofit joints
- Large expansion joints requiring an architectural finish

## DOW CORNING® 790

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



# W-SF-SI Series

## SPECIFICATION

Sealant shall be the W-SF-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-SF-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-SF-SI must provide a watertight joint. The manufacturer shall furnish a Certificate of Compliance with these requirements.

## TYPICAL PHYSICAL PROPERTIES

Density		2-3 lb/cu. ft.
Thermal Conductivity	ASTM C177	R-4
Tensile Strength	ASTM D3575	120psi
Tensile Elongation	ASTM D3575	250%
Tear Resistance	ASTM D624	21.5 lbs/in.
Water Absorption	ASTM D3575	<.02 lbs/ft <sup>2</sup>
Weather Resistance	ASTM D1499	No Cracking
Weatherometer	Xenon Arc	2000hrs – No visible deterioration
Primary Surface Weathering	Atlas Weatherometer	6000hrs – Minimal Harness Change
Durometer Hardness	ASTM D2240	Shore A 15pts

## CHEMICAL RESISTANCE (core foam material)

Isopropyl Alcohol	Excellent	Linseed Oil	Excellent
Naptha	Excellent	Motor Oil #30	Excellent
Clorox	Excellent	Acetic Acid 5%	Excellent
Ethylene Glycol	Excellent	Hydrochloric Acid Conc.	Excellent
Butyl/ethyl Acetate	Excellent	Nitric Acid	Excellent

## 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.
- 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.
- 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.

### 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.

The right is hereby reserved to make changes from time to time in styles and construction whenever deemed advisable and to withdraw from sales any item whenever necessary. In presenting these products Architectural Art Mfg., a division of Pittcon Architectural Metals, LLC, cannot claim to serve in any but an advisory capacity and can undertake no liability. The use of our products should be modified, if necessary, to conform to local conditions and materials

## 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.
- Compress W-SF-SI and insert the material into the joint.
- 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.

## 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