W-TF-SI Series

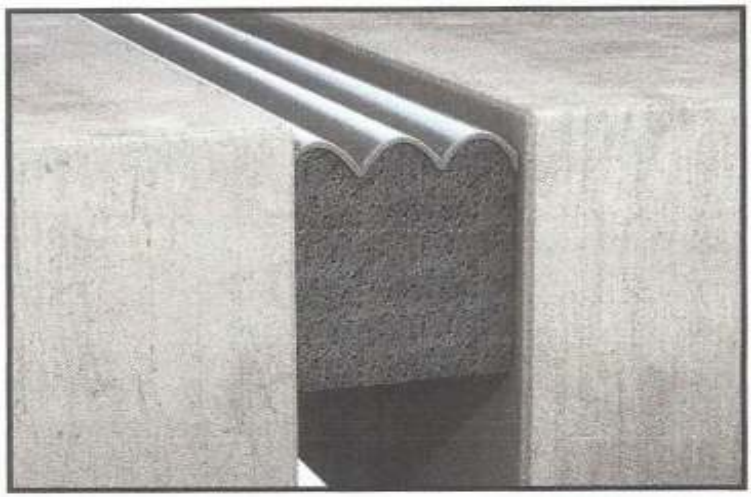
Pre-compressed Joint Sealant
High Density, Polyurethane Foam,
Waterproofs Horizontal Applications

PRIMARY USES
Road and Bridge Joints
Horizontal Expansion Joints
Parking Structure Expansion Joints

DESCRIPTION

- The W-TF-SI is a premium quality joint sealant composed of a high density, open micro-cell polyurethane foam impregnated with a hydrophobic polymer sealing compound.
- Developed to meet the high performance needs of state and federal DOT projects.
- Provides a waterproof, dustproof, airtight, UV stable, chemically resistant, soundproof 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-TF-SI is installed in the joint, the material expands depending on temperature, adapting 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 Color Gray

Available Sizes (Joint Width)
*Sticks: 1/2” to 4"
*(custom sizes available upon request)



ADVANTAGES

- Intumescent fire rated adhesive, site applied to seal and protect substrate.
- Can accommodate rapid rates of joint movement.
- Supplied in pre-compressed state for ease of installation.
- Excellent compression recovery.
- Permanently conforms to varying joint contours.
- Used for joints up to 4” wide
- Allows for up to 100% (±50%) movement.
- Consistent depth of product.
- Not based on asphaltic or bitumastic impregnation.
- Resilient and flexible to -40°F (long term).

APPLICATIONS

- Horizontal movement – expansion, control, and isolation joints.
- Road and bridge joints
- Parking garages.
- Retrofit joints
- Plaza decks.
- Other joints requiring a watertight seal.

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SPECIFICATION

Sealant shall be the W-TF-SI as provided by Architectural Art Manufacturing. Sealant shall be a high density, open micro-cell polyurethane foam impregnated with a waterproof polymer sealing compound. The W-TF-SI shall be installed in the joint in a pre-compressed state and after expansion shall provide a watertight joint. When compressed to 50% of its fully expanded size, the W-TF-SI must provide a watertight joint. The manufacturer shall furnish a Certificate of Compliance with these requirements.

TYPICAL PHYSICAL PROPERTIES

Thermal Resistance	ASTM C518	3.3 hr-°F-ft²/Btu
UV Resistance		Excellent
Temperature Stability Range		-40°F to 185°F
Resistance to Compression Set	ASTM 3574	Max 2.5%
Shear Strength		Min. 8N/cm²
Thermal Conductivity	ASTM 3574	0.05W/m. °C
Tensile Strength	ASTM 3574	Meets 21 psi min.
Ultimate Elongation		125% ±20%
Mildew Resistance		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.
- 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.
- Apply a 1/16”-1/8” coating of the epoxy mixture on both sides of the joint to a depth of the sealant material plus ½”.

ROLL INSTALLATION

- When fully prepared to install, remove the outer lining surrounding the roll and the first 1”-2” of material.
- Insert the material into the joint while pressing the material against the side of the joint, activating the PSA (Pressure Sensitive Adhesive).

STICK INSTALLATION

- 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,

CLEAN UP

- Remove any excess epoxy 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.

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