Seismic Sealtite™

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

**PRODUCT DESCRIPTION**

- Seismic Sealtite™ is a premium quality joint sealant composed of a open micro-cell polyurethane foam impregnated with a hydrophobic, polymer sealing compound.
- Coated with a colorized, 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 Seismic Sealtite™ 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 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 the silicone coating or on 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

**PRIMARY 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.

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**DOW CORNING® 790**

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

SPECIFICATION

Sealant shall be Seismic Sealtite™ as manufactured by Schul International Company, LLC, 800-848-1120. Sealant shall be a polyurethane foam impregnated with a waterproof polymer sealing compound. Seismic Sealtite™ shall be installed in the joint in a pre-compressed state with a silicone coating on the exposed face. When compressed to 50% of its fully expanded size, Seismic Sealtite™ must provide a watertight joint. The manufacturer shall furnish a Certificate of Compliance with these requirements.

TYPICAL PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Conductivity</td>
<td>0.05 W/m.°C</td>
</tr>
<tr>
<td>Temperature Stability Range</td>
<td>-40°F (-40°C) to 185°F (85°C)</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>21 psi min.</td>
</tr>
<tr>
<td>Ultimate Elongation</td>
<td>125% ±20%</td>
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<tr>
<td>Resistance to Compression Set</td>
<td>Max 2.5%</td>
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<tr>
<td>Shear Strength</td>
<td>Min 8N/cm²</td>
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<tr>
<td>Mildew Resistance</td>
<td>Excellent</td>
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<tr>
<td>Staining</td>
<td>None</td>
</tr>
<tr>
<td>Flammability</td>
<td>Self Extinguishing</td>
</tr>
<tr>
<td>Flash Point</td>
<td>590°F (310°C)</td>
</tr>
<tr>
<td>Durometer Hardness</td>
<td>Shore A 15pts.</td>
</tr>
</tbody>
</table>

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

WARRANTY

Subject to certain limitations Schul warrants Seismic Sealtite Expansion Joint against defects in material for a period of ten (10) years from the date of delivery, provided Schul limitations and project specific recommendations were followed.

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 the 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.

For complete installation instructions and product information, contact Technical Support: 800.848.1120 or visit us on the web at www.schul.com
For Fire Rated applications, please consider and view the included Datasheet for our Firejoint 2FR-V and Firejoint 3FR-V

Thank you
Firejoint® 2FR-V & Firejoint® 3FR-V

PRODUCT DESCRIPTION

- Firejoint 2FR-V & Firejoint 3FR-V feature waterproof silicone faces on each side of a fire-retardant impregnated foam sealant without the need for additional intumescent bellows.
- Firejoint 2FR-V & Firejoint 3FR-V are second generation unified fire rated, sound, energy and waterproof sealant systems.
- Firejoint 2FR-V & Firejoint 3FR-V do not rely on the silicone face or an intumescent bellows to provide its fire rating. This is an important safety improvement over first generation materials that are subject to vandalism or damage to the thin silicone/intumescent bellows.
- The main function of the silicone face is to enhance the waterproofing nature of the sealant and provide an aesthetic, colored finish.
- Firejoint 2FR-V & 3FR-V provides a factory controlled, watertight, clean handling, UV stable, sound attenuating, energy efficient and fire rated joint seal in a single, unified installation process.
- Firejoint 2FR-V & 3FR-V are designed to be used alone but can be used behind any other expansion joint cover, plate or filler where joint depth allows. Because it is coated on both sides it can be placed with either side exposed adding to the versatility and increasing the aesthetic fireproof sealing options.
- Depending on the application, Firejoint 2FR-V & 3FR-V can be supplied without silicone for use in concealed applications.
- Firejoint 2FR-V & 3FR-V Silicone Faces:
  - Dow Corning® 790, Pecora 890 NST™
  - Custom Colors are available
  - Pick Resistant Urethane: Tru White, Limestone
- Available Sizes: 1/2” (12mm) to 6” (152 mm).
- Sizes 1” and greater are supplied in 1/4” increments.
- Depth of seal is 2″, 3” or 4″ depending on UL listing. Listings with a 2” depth have a fire rating of 1 or 2 hours. Visit www.ul.com for more information.

ADVANTAGES

- Intumescent fire rated adhesive site applied to seal and protect substrate
- Watertight - Installed with a tensionless bellows, which when installed with an optional silicone bead on the weather face, maintains a watertight seal.
- Pick Resistant - Pick resistant urethane faces used in applications where vandalism is a concern.
- Fire-Rated - The fire-retardant-impregnated foam when properly installed, provides a 2 hr or 3 hr fire rating in accordance with UL 2079.
- Sound Attenuation - Minimizes sound transfer which can occur at expansion joints and wide openings.
- Non-Invasive Anchoring - There is no drilling or modification to the substrate required. This includes embedded pins, anchors, screws, bolts, tracks, rails, flanges or coverplates. The system is secured to the joint substrate by means of the internal recovery force of the foam, the epoxy adhesive, and the optional injected sealant beads at the joint face.
- Movement Capability +/-25% or +/-50% depending on UL listing.
- Joint-Size Variation - Controlling uniform bellows appearance, and the ability to handle variations in joint size through incremental sizing, are additional product features.
- Factory Fabricated Transitions - as in all of our expansion joint systems, continuity of seal through changes in plane and direction is essential to system performance.

DOW CORNING® 790 COLORS

Black  Limestone  Dusty Rose
Bronze  Precast White  Rustic Brick
Sandstone  Natural Stone  Blue Spruce
Adobe Tan  Gray  Charcoal
White

PECORA 890 NST™ COLORS

Black  Precast  Beige
Limestone  Anodized Aluminum  Aluminum Stone
Natural Stone  Sandstone  Charcoal Gray
Classic Bronze  Red Rock  Hartford Green
Tru White
Firejoint® 2FR-V & Firejoint® 3FR-V

Fire Rated Expansion Joint - 2 & 3 Hour Fire Rated
Waterproof, Sound, Energy, Fire Rated

DESIGN & ASSEMBLY

This material has been tested to UL 2079 and is manufactured under UL’s Follow-Up Service. Firejoint 2FR-V & 3FR-V are manufactured in an ISO 9001:2008 facility. In addition to being proof of our commitment to overall quality, the system ensures that any change to form, fit, function or safety of the product will be documented and published.

Because the material is being supplied as a fire-rated component of a wall assembly it has been tested to UL 2079 in assemblies as depicted in our UL listings in the UL Certifications Directory. Use of this material in assembly configurations other than depicted in the named UL listings will not encumber or lower the resistance of the deck or wall assembly but is done so at the designers’ discretion and responsibility for designing substrates as part of a fire rated assembly that meet applicable standards for the project. The online information in the UL Listings cannot always address every construction nuance encountered in the field. Authorities having jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products or materials. Authorities having jurisdiction should be consulted before construction to ensure that specific adjacent substrates and assemblies are detailed and constructed to meet local fire-rating requirements.

FEATURES

- Watertight: Installed with a tensionless bellows, which when installed with an optional silicone bead on the weather face, maintains a watertight seal.
- Fire-Rated: When properly installed, the fire retardant, impregnated foam provides a 2 hr or 3 hr fire rating in accordance with UL 2079.
- Sound Attenuation: Minimizes sound transfer which can occur at expansion joints and wide openings.
- Non-Invasive Anchoring: There is no drilling or modifying the substrate required. This includes embedded pins, anchors, screws, bolts, tracks, rails, flanges or coverplates. The system is secured to the joint substrate by means of the internal recovery force of the foam, the epoxy adhesive, and the optional injected sealant bands at the joint face.

TESTING & STANDARDS

- Firejoint 2FR-V & 3FR-V have been tested and certified under UL 2079. It meets the requirements of ASTM E1966, ASTM E119 and ASTM E1399. UL 2079, like ASTM E1966, was developed to encompass the fire testing of ASTM E119 and movement cycling regime of ASTM E1399.
- It is also tested to ASTM E283, 330, 331 & 547 to confirm its sealing capabilities through its entire stated movement range. ASTM E90 testing has been completed to verify the sound attenuating properties of the system.

INSTALLATION OPTIONS

- Manufactured in 6.5 Lineal Feet (2M) sticks which can be joined in the field to factory fabricated 90° transitions. These factory fabricated 90° units are coated on both sides with the silicone coating allowing them to be installed as an upturn or downturn transition.
- Typically, transitions have a 6" long horizontal leg and a 12" vertical leg. Custom sizes are available to meet actual field conditions. Transitions end in an uncoated 90° miter to be adhered to another transition piece as used in walls-to-decks, treads and risers, parapets, curbs and other applications.
- In addition to ensuring watertightness, 90° transitions can sometimes allow for a much faster and secure installation by eliminating field cutting at angles.
- Can be installed facing out from an exterior or interior wall and maintain its two or three hour fire-rating. When either (or both) faces have a field applied bead of silicone, that face is watertight. (This sealant bead may not be required.) Firejoint 2FR-V & 3FR-V are installed with an epoxy adhesive field applied to the sides of the Firejoint 2FR-V & 3FR-V and on the face of the joint substrate. Although required by other competitive, but lower performing systems, Firejoint 2FR-V & 3FR-V does not require the “injected bead” for its waterproof characteristics. The unions between each stick are made using a UL approved sealant.

WARRANTY

Standard or project specific warranties are available from the manufacturer upon request. This product can only perform its designed function if it, and the joint gap into which it is installed, is properly sized for the anticipated joint movements in consideration of the movement capability of the product. This can vary based on the temperature at time of installation and should be considered to determine the mean joint dimension. Material must be installed in strict accordance with our installation instructions.

For complete installation instructions and product information, contact Technical Support: 800.848.1120 or visit us on the web at www.schul.com