



TECHNICAL DATA SHEET

WILLSEAL® SEISMIC SAF-V

Pre-Compressed, Seismic Safety
Vertical Expansion Seal

PRODUCT DESCRIPTION

Willseal® Seismic SAF-V is a pre-compressed, self-expanding open micro-cell polyurethane foam impregnated with a hydrophobic, acrylic polymer and coated with a factory-applied pick-resistant sealant. It is designed to provide a watertight, dust-proof, noise-reducing, thermally insulating, and UV stable primary seal for areas that can be easily damaged or vandalized in institutional or other public buildings.

BASIC USES

Willseal Seismic SAF-V can be used as a primary seal in vertical applications. Typically used in areas that require a tamper-resistant seal, such as those found in schools, detention facilities, day cares, hospitals, prisons, and other government facilities. The following are acceptable applications for Willseal Seismic SAF:

- Primary expansion, control, and isolation joints
- Primary construction joints
- Retrofit and seismic joints
- Vertical expansion joints
- Joints in pre-cast concrete, masonry, brick, and facades
- Exterior panel systems (masonry, granite, metal, curtainwalls)

FEATURES & BENEFITS

Willseal FR/SAF-V is a one-step primary seal for exposed areas where color matching is important. It has a puncture-resistant, elastomeric coating on the exterior surface. Willseal FR/SAF-V provides a tamper-resistant, watertight seal in dynamic joints and allows for up to 100% movement (\pm 50% movement). The sealant coating hardens to 50 ± 10 durometer and meets UL94V0, Cal 117 for self-extinguishing.

- Utilizes non-invasive anchoring
- Abrasion and tear resistant

Willseal FR/SAF-V is supplied in a pre-compressed state for ease of installation. Material will self-expand to fill the joint. Expansion time will vary based on humidity, temperature, and storage conditions for the prior 24 hours; may differ for wider, thicker material. Material will continue to expand and equalize in the joint.

- No unbonded laminations
- Not based on wax, asphalt, or bitumastic impregnation

AVAILABILITY

Available in joint sizes from ½" to 8" in sticks (6.5 ft lengths) from your authorized Tremco distributor, or any Tremco or Willseal Sales Representative. Custom sizes are available upon request. For more information contact Customer Service by phone at 800-274-2813 or email custserv@willseal.com.

COLORS

Available in Tru White and Limestone. Custom colors available upon request. For more information contact Customer Service by phone at 800-274-2813 or email custserv@willseal.com.

LIMITATIONS

Do not subject to harsh chemicals. Will not adhere to surfaces contaminated by oil or grease. Concrete should be clean, dry, and sound before application.

Do not install when substrate or ambient temperatures are below -40°F (4.5°C) or above 95°F (35°C). Consult a Tremco or Willseal Sales Representative for extreme temperature installation information.

WARRANTY

A repair or replacement warranty is available on all Willseal products. Visit <https://www.tremcosealants.com/warranties/> for details.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL RESULTS
Foam Color		Black
Temperature Stability Range		-40 to 185 °F (-40 to 85 °C)
Staining		None
Flash Point		590 °F (310 °C)
Thermal Conductivity	ASTM C518	0.05 W/m•°C
Tensile Strength	ASTM D3574	21 psi min*
Ultimate Elongation	ASTM D3574	125% ± 20%
Compression Set	ASTM D3574	2.5% max
STC	ASTM E90-09	54
OITC	ASTM E90-09	47
Flame Spread and Smoke Development	ASTM E 84-12	Class A/I (Flame Spread 5, Smoke Development 5)
Durometer Hardness	ASTM D2240	Shore A 15 pts
Shear Strength		Min 8 N/cm ²
Sealant Properties		
Hardness (Shore A)	ASTM C661	50 ± 10
Adhesion to Concrete	ASTM C794	25 to 47 pli
Tear Strength	ASTM D624	40 ± 5
Ultimate Elongation	ASTM D412	175 to 300 %
Ultimate Tensile Strength	ASTM D412	250 psi

**Attachment method of Willseal Seismic SAF-V was in a single joint compressed to 50% of original foam thickness. Joint material was constructed of calcium silicate board and is representative of field installation of the product.*

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Willseal Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc.



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