TECHNICAL DATA SHEET

WILLSEAL® 600

Breathable Primary Seal for Vertical Applications

PRODUCT DESCRIPTION

Willseal® 600 is a pre-compressed, self-expanding foam joint seal, engineered to perform as a highly flexible, weather-tight, primary seal in vertical exterior applications. The high-density polyurethane foam is impregnated with a modified flame retardant, hydrophobic, UV stable acrylic resin and treated with a pressure-sensitive adhesive on one side for ease of installation. Willseal 600 self-expands to fill the joint creating an elastic, vapor-permeable, weathertight seal.

BASIC USES

Typically used as an external or interior joint sealant, Willseal 600 can be used as a primary seal in vertical applications. The following are acceptable applications for Willseal 600:

- Expansion, control, isolation, and retrofit joints
- Secondary construction joints behind a wet seal
- Joints in pre-cast concrete, masonry, brick, and facades
- Roofing and insulated metal panels
- Exterior insulation finish systems (EIFS)
- Primary seal in starter track assemblies for window wall
- Interior vapor, dust, acoustical, and air control

FEATURES & BENEFITS

Willseal 600 can be applied in various weather and temperature conditions with minimal surface preparation required. The material is compatible with a variety of Tremco Sealants and is chemically compatible with many types of commercial construction substrates: will not corrode iron, zinc, steel, galvanized steel, or copper, and will not chemically harm concrete, lightweight concrete, mortar, brick, natural stones, plexiglass, or wood.

- Remains permanently flexible
- Low volatility
- No mixing, masking, or priming required
- Easy soap-and-water cleanup: no solvents, no cartridges, no pails
- Compatible with most porous or sensitive substrates
- Proven wind driven rain resistance since 1965
- Depth of seal can be changed to increase R-value and sound properties

Willseal 600 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.

AVAILABILITY

Available in both rolls and sticks (6.5 ft lengths) from your authorized Tremco distributor, or any Tremco or Willseal Sales Representative. For more information contact Customer Service by phone at 800-274-2813 or email custserv@willseal.com.

- Primary: joint sizes from 1/8” to 2” in rolls
- Joint sizes from 2.25” to 8” in sticks (6.5ft lengths)
- Custom sizes available upon request

COLORS

Willseal 600 is Black.

LIMITATIONS

Avoid contact of Willseal 600 with hydrocarbon solvents and corrosive chemicals. Willseal 600 cannot be used as a primary seal where standing or ponding water will occur. Not for use in below-grade applications (contact your local Technical Sales Representative for product recommendations).

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
Color		Black
Temperature Stability Range		Short Term: -40 to 248 °F (-40 to 120 °C) Long Term: -40 to 194 °F (-40 to 90 °C)
Ideal Storage Temperature		68 °F (34 °C)
Thermal Conductivity	ASTM C518	0.28 to 0.30 Btu•in/hr•°F•ft^2
Thermal Resistance	ASTM C518	3.3 to 3.6 hr•°F•ft^2/Btu
Tensile Strength*	ASTM D3574	21 psi min
Elongation	ASTM D3574	120% ± 20%
Compression Set	ASTM D3574	4.2% max
Staining and Bleeding	DIN 18542	Meets DIN requirements
Resistance to UV and Moisture	DIN 18542	Meets DIN requirements
Comprehensive Performance Test	DIN 18542	600 Pa
Water Penetration: Uniform Static** Cyclic Static**	 ASTM E331 ASTM E547	 Pass Pass
Fire Testing: Flame Spread Smoke Development	 ASTM E84-12B Class A ASTM E84-12B Class A	 5 5
Compatibility With Conventional Construction Materials	DIN 52 423	No signs of corrosion were observed on zinc, steel, galvanized steel, aluminum and copper, no adverse effects with concrete, aerated concrete, brick, some natural stone, PVC, Plexiglass, and wood, for other materials consult Willseal

*Attachment method of Willseal 600 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.
**For higher driving rain resistance see Willseal 150 which provides 1000 Pa versus 600 Pa (12 psf).

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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