

DATA SHEET

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 & 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

When used within its application range, Willseal 600 is weathertight against driving rain up to 12 lb/ft² psf or 600 Pa. Remains permanently flexible.

- Low volatility
- Compatible with several Tremco Sealants
- 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.
- Minimal surface preparation required
- No mixing, masking or priming required
- Can be applied in various weather and temperature conditions
- 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

Availability

Willseal 600 is available 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.

Colors

- 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.)

Packaging

- Primary: Joint sizes from 1/8" to 1-1/2" in rolls
- Joint sizes from 1-3/4" to 8" in sticks (6.5 ft lengths)
- Custom sizes available upon request

Expansion Time

Material will self-expand to fill the joint. Expansion time will vary based on humidity, temperature and storage conditions for the prior 24 hours. Estimated expansion time at 50% R.H. @ 70°F (21°C) is approximately 30 minutes. Material will continue to expand and equalize in the joint.

Warranty

Willseal Products are warranted to be free of defects in materials but no warranty is made as to appearance or color. No other warranty, expressed or implied, is made with respect to Willseal Products, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE. The sole and exclusive remedy under this warranty shall be to replace or refund the purchase price of the quantity of Willseal Products proven to be defective, and there is no liability whatsoever for other loss or damage.

Please refer to our website at www.Willseal.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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TYPICAL PHYSICAL PROPERTIES

PROPERTY	DESCRIPTION	
COLOR	Black	
TEMPERATURE STABILITY RANGE		
Short term	-40 °F (-40 °C) to 248 °F (120 °C)	
Long term	-40 °F (-40 °C) to 194 °F (90 °C)	
IDEAL STORAGE TEMPERATURE	68 °F (34 °C)	
PROPERTY	TEST METHOD	TYPICAL RESULTS
THERMAL CONDUCTIVITY	ASTM C518	0.28 – 0.30 Btu-in./hr-°F-ft ²
THERMAL RESISTANCE	ASTM C518	3.3 hr – 3.6 hr-°F-ft ² /Btu
TENSILE STRENGTH	ASTM D3574	21 psi min ¹
ELONGATION	ASTM D3574	120% +/- 20%
COMPRESSION SET	ASTM D3574	4.2% max
STAINING AND BLEEDING	DIN 18 542	Meets DIN requirements
RESISTANCE TO UV AND MOISTURE	DIN 18 542	Meets DIN requirements
COMPREHENSIVE PERFORMANCE TEST	DIN 18 542	600 Pascal
WATER PENETRATION		
Uniform Static	ASTM E331	12.5 psf ²
Cyclic Static	ASTM E547	12.5 psf ² (add compression %)
FIRE TESTING		
Flame Spread	ASTM E84-12B Class A	5
Smoke Development	ASTM E84-12B Class A	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 1000Pa versus 600 (12psf).



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Willseal, A Tremco Affiliate Brand

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