

DESCRIPTION

Willseal 150 is a pre-compressed, self-expanding foam joint sealant, engineered to perform as a highly flexible, weather-tight, primary seal in vertical exterior applications. Willseal 150 is specifically designed to provide a permanent seal against rain, wind, sound, and dust. Willseal 150 is waterproof to a wind driven rain at 16.1psf (90mph) making an optimal primary joint. Willseal 150 is manufactured in an ISO facility at the highest levels of quality and finely engineered to the maximum performance for every joint size. Willseal 150 is not prone to common failure mechanisms like gun applied wet sealant and backer rod such as adhesive, cohesive, and geometry and is more resistant to excessive or rapid joint movements.

MATERIAL

Willseal 150 consists of 3 elements: a foundation of super-resilient micro-cell polyurethane foam, an impregnation of flame retardant, hydrophobic UV stabilized acrylic emulsion, and a pressure-sensitive adhesive with embedded scrim to prevent stretching or pulling during installation. Willseal 150 is supplied at our highest levels of compression on a roll or in sticks with the PSA on one side for ease of installation. Willseal 150 is self-extinguishing and has a flame spread of 0 with a smoke development rating of 5 per ASTM E 84 and is chemically compatible with all types of commercial construction. (For fully fire rated joints see Willseal FR per UL2079.)

COLORS

- Black
- Gray (On Request)

DIMENSIONS

- Joint sizes from 1/8" to 1-1/2" in rolls.
- Joint sizes from 1-3/4" and wider in sticks.

APPLICATIONS

- Primary vertical construction and expansion joints
- Exterior Panel Systems - Masonry, Stone, EIFS, Curtain Walls
- Manufactured Housing and Log Homes
- Pre-cast concrete walls, Tilt-up walls



TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUE
Color		Black/Gray (On Request)
Thermal Conductivity	ASTM C 518	0.05 W/m.°C
Thermal Resistance	ASTM C 518	3.3 hr-°F-ft ² /Btu
Tensile Strength	ASTM D 3574	21 psi min.
Temperature Stability Range		- 40°F to 212°F
Elongation	ASTM D 3574	120% +/-20%
Compression Set	ASTM D 3574	2.5% max
Staining and Bleeding	DIN 18 542	Meets DIN requirements
Resistance to UV and Moisture	DIN 18 542	Meets DIN requirements
Shelf Life		1 year
Water Resistance	ASTM E 331 ASTM E 547	12 psf 12 psf
Flammability Fire Testing	UL94VO ASTM E 84	Self Extinguishing Flame Spread: 0, Smoke Developed: 5
Compatibility with conventional construction materials	DIN 52 423	No signs of corrosion were observed on zinc, steel, galvanized steel, aluminium and copper; no adverse effects with concrete, aerated concrete, brick, some natural stone, PVC, Plexiglass and wood; for other materials consult Willseal
Ideal Storage Temperature		68°F
Performance Guarantee		10 year warranty ² on performance

1 Attachment method of Willseal 150 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.

2 Due to the conditions set by Willseal, certain restrictions apply. Inquire with Willseal for details.

UNIQUE PROPERTIES

- No unbonded laminations
- Paintable with water based paints
- Can be installed under many weather and temperature conditions
- There is no mixing, no masking, no staining, and no mess

LIMITATIONS

- Wet joints can inactivate the PSA. In this case fix Willseal 150 with wood shims until the tape has expanded (see Drawing B).
- If covering Willseal 150 with silicones or caulk conduct a compatibility test or contact Willseal for suggestions.
- Direct contact with solvent based paints and corrosive chemical agents is not recommended.
- Avoid over-compression.

SUGGESTED TOOLS

- For installation you need a tape measure, spatula/putty knife, scissors/knife, and possibly wood shims.

APPLICATION

- After measuring the joint, choose the appropriate tape size based on the joint size (see table).
- Cut off the over-compressed parts of the Willseal 150 at the beginning and end of the roll (first 2").
- Add at least 1 cm to the measured length and cut the Willseal 150.
- For vertical joints, start to work from the bottom and end the Willseal 150 in a butt joint to terminate the Willseal tape to tape (see Drawing C + A).
- For appearance reasons, Willseal 150 should be installed recessed 1-2mm.

INSTALLATION TIPS: WINDOWS

- Do not fix the tape around corners.
- Tape should be fixed at the corner to form a butt joint (See Drawing A).

INSTALLATION TIPS: PREFAB PARTS

- During the installation of the prefabricated parts, distance holders must be used to prevent over-compression of Willseal 150.
- In the case of porous or absorbing substrates treat the substrates with a hydrophobic liquid.
- For horizontal joints put the PSA to the bottom side.

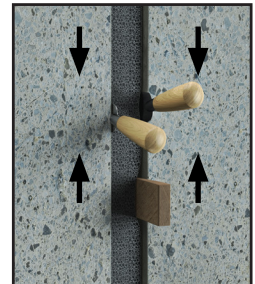
INSTALLATION TIPS: CROSS JOINTS

- At the cross joint, install as per drawing D. First install the Willseal 150 on the horizontal joint with the PSA side faced down. Next, install the vertical joint ensuring the surfaces between the horizontal and vertical joints are flush to each other.

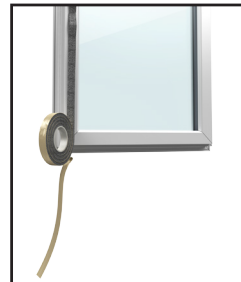
Drawing A



Drawing B



Drawing C



Drawing D

