

### Product Description

illmod 600® is a UV stable, pre-compressed, self-expanding, flexible, flame-resistant joint seal. It is a high-density polyurethane foam that is impregnated with a modified acrylic resin and treated with a pressure-sensitive adhesive on one side for ease of installation. illmod 600 self-expands to fill the joint creating an elastic, vapor-permeable, weathertight seal.

### Basic Uses

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

Vertical expansion joints

Joints in pre-cast concrete, masonry, and façades

Roofing and insulated metal panels

Exterior insulation finish systems (EIFS)

Primary seal in starter track assemblies for window wall

### Features and Benefits

- When used within its application range, illmod 600 is weathertight against driving rain up to 12 lb/ft<sup>2</sup> psf or 600 Pa. It is vapor permeable, has a flame spread of 0 and a smoke development rating of 5 as tested per ASTM E84.
- 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 or masking.
- Can be applied in various weather and temperature conditions.
- Can be painted over with water-based, flexible paint.
- 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.

### Availability

illmod 600 is available for purchase from your authorized Tremco distributor.

### Colors

Black and Gray

### Limitations

- To avoid over-compressed or under-compressed applications, use the sizing chart on page 2 of the data sheet to select the appropriate size of the product. As a rule of thumb, the joint size will fall in the middle of the performance range. If further assistance is needed on sizing, please contact your local Tremco Sales Representative.
- Water can de-activate the pressure-sensitive adhesive backing. If needed, use wood shims to hold the product in place during the expanding period.
- Avoid contact of illmod 600 with hydrocarbon solvents and corrosive chemicals.
- illmod 600 must not be used as a primary seal where standing or ponding water will occur.

### Warranty

Tremco warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

Please refer to our website at [www.tremcosealants.com](http://www.tremcosealants.com) for the most up-to-date Product Data Sheets.

## TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL RESULTS
Color		Black and Gray
Density	ASTM D3574	5.5 to 6.5 lb/ft <sup>3</sup>
Tensile Strength	ASTM D3574	21 psi minimum
Thermal Resistance	ASTM C518	3.3 to 3.6 hr x F x ft <sup>2</sup> /BTU
Thermal Conductivity	ASTM C518	0.28-0.30 BTU-in/hr-F-ft <sup>2</sup>
Short Term <24 hr		-40 to 248 °F (-40 to 120 °C)
Long Term		-40 to 194 °F (-40 to 90 °C)
Elongation	ASTM D3574	120% +/-20%
Compression Set	ASTM D3574	4.2% maximum
Stain and Bleed	DIN 18 542	Passes requirements
Stain and Bleed	ASTM C510	No stain
Resistance to UV and Moisture	DIN 18 542	Passes requirements
Shelf Life		24 months
Uniform Static Pressure	ASTM E331	12 psf
Cyclic Static Pressure	ASTM E547	12 psf
Fire Testing	ASTM E84	Flame Spread: 0
Smoke Development		5
Chemical Compatibility	DIN 52 423	No signs of corrosion on zinc, steel, galvanized steel, aluminum, and copper. No adverse chemical effects with concrete, lightweight concrete, brick, natural stones, plexiglas, or wood.
Hardness (at 80% compression)	Durometer scale A	25 +/-3
Application Temperature		No restrictions
Thermal Conductivity	ASTM C518	0.28-0.30 BTU-in/hr-F-ft <sup>2</sup>

## illmod 600 Black Sizing Chart

Product Code	Joint/Gap Size to Be Filled (a)	Tape Depth into Joint (b)	Roll Length	Rolls/Case	Length/Case
S368320 522	0 to 1/8" (0-3 mm)	3/8" (10 mm)	32.5' (9.9 M)	10	324'
S368332 522	1/8 to 1/4" (3-7 mm)	1-3/8" (35 mm)	26.2' (8 M)	8	210'
S368355 522	3/16 to 3/8" (5-10 mm)	5/8" (15 mm)	18.4' (5.6M)	20	368'
S368356 522	3/16 to 3/8" (5-10 mm)	1-3/8" (35 mm)	18.4' (5.6M)	8	147'
S368357 522	3/16 to 3/8" (5-10 mm)	4" (102 mm)	18.4' (5.6M)	3	55'
7368364 522	5/16 to 5/8" (8-15 mm)	5/8" (15 mm)	10.8' (3.3 M)	20	217'
S368365 522	5/16 to 5/8" (8-15 mm)	3/4" (20 mm)	10.8' (3.3 M)	16	173'
S368366 522	5/16 to 5/8" (8-15 mm)	1" (25 mm)	10.8' (3.3 M)	12	130'
S368367 522	5/16 to 5/8" (8-15 mm)	1-3/16" (30 mm)	10.8' (3.3 M)	10	108'
S368372 522	5/16 to 5/8" (8-15 mm)	4" (102 mm)	10.8' (3.3 M)	3	32'
S368391 522	3/8 to 11/16" (10-18 mm)	3/4" (20 mm)	14.8' (4.5 M)	16	236'
7368392 522	3/8 to 11/16" (10-18 mm)	1" (25 mm)	14.8' (4.5 M)	12	177'
S368393 522	3/8 to 11/16" (10-18 mm)	1- 1/4" (32 mm)	14.8' (4.5 M)	9	133'
S369507 522	1/2 to 7/8" (13-24 mm)	1" (25 mm)	17' (5.2 M)	12	205'
7369508 522	1/2 to 7/8" (13-24 mm)	1-3/16" (30 mm)	17' (5.2 M)	10	171'
S369509 522	1/2 to 7/8" (13-24 mm)	1-1/2" (38 mm)	17' (5.2 M)	8	137'
7369524 522	11/16 to 1-1/4" (17-32 mm)	1-3/16" (30 mm)	13.1' (4 M)	10	131'
S369525 522	11/16 to 1-1/4" (17-32 mm)	1-1/2" (38 mm)	13.1' (4 M)	8	105'
S369526 522	11/16 to 1-1/4" (17-32 mm)	1-3/4" (45 mm)	13.1' (4 M)	7	92'
S369540 522	1 to 1-5/8" (28-40 mm)	1-1/2" (38 mm)	8.8' (2.7 M)	8	71'
7369541 522	1 to 1-5/8" (28-40 mm)	2" (50 mm)	8.8' (2.7 M)	6	53'
S369542 522	1 to 1-5/8" (28-40 mm)	2-1/3" (60 mm)	8.8' (2.7 M)	5	44'
S369543 522	1 to 1-5/8" (28-40 mm)	3-1/2" (90 mm)	8.8' (2.7 M)	3	27'
S360003 522	1-5/8 to 2-1/8" (42-54 mm)	2" (50 mm)	6.5' (2 M)	6	39'
7360103 522	1-5/8 to 2-1/8" (42-54 mm)	2-3/4" (70 mm)	6.5' (2 M)	4	26'
S360203 522	1-5/8 to 2-1/8" (42-54 mm)	3-1/2" (90 mm)	6.5' (2 M)	3	20'
S360002 522	2 1/16 to 2 5/8" (52-67 mm)	2-1/3" (60 mm)	6.5' (2 M)	4	26'
7360102 522	2 1/16 to 2 5/8" (52-67 mm)	2-3/4" (70 mm)	6.5' (2 M)	4	26'
S360202 522	2 1/16 to 2 5/8" (52-67 mm)	3-1/2" (90 mm)	6.5' (2 M)	3	20'

illmod 600 Gray Sizing Chart

S368368 522	3/8 to 5/8" (8-15 mm)	5/8" (15 mm)	10.8' (3.3 M)	20	217'
S368394 522	3/8 to 11/16" (10-18 mm)	3/4" (20 mm)	14.8' (4.5 M)	16	236'
S368395 522	3/8 to 11/16" (10-18 mm)	1" (25 mm)	14.8' (4.5 M)	12	177'
S368396 522	3/8 to 11/16" (10-18 mm)	1-1/4" (32 mm)	14.8' (4.5 M)	9	133'
S369513 522	1/2 to 7/8" (13-24 mm)	3/4" (20 mm)	17.1' (5.2 M)	15	257'
S369510 522	1/2 to 7/8" (13-24 mm)	1" (25 mm)	17.1' (5.2 M)	12	205'
S369511 522	1/2 to 7/8" (13-24 mm)	1-3/16" (30 mm)	17.1' (5.2 M)	10	171'
S369512 522	1/2 to 7/8" (13-24 mm)	1-1/2" (38 mm)	17.0' (5.2 M)	8	137'
S369527 522	11/16 to 1-1/4" (17-32 mm)	1-3/16" (30 mm)	13.1' (4 M)	10	131'
S369528 522	11/16 to 1-1/4" (17-32 mm)	1-1/2" (38 mm)	13.1' (4 M)	8	105'
S369529 522	11/16 to 1-1/4" (17-32 mm)	1-3/4" (45 mm)	13.1' (4 M)	7	92'

0316/ILLMODDS-GL



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