

## PRODUCT DESCRIPTION

illmod 600 is a soft and flexible open cell polyurethane foam joint sealing tape for use in a wide variety of construction, control and expansion joints, as well as other applications. It is a pre-compressed, self-expanding, flexible, flame resistant joint seal. Weather tight against the most severe combinations of wind and rain, it satisfies most expectations as an external weather seal in building and civil engineering applications. This product has been extensively tested and has a proven reputation across the UK, Europe, and North America.

## USAGE/PURPOSE

illmod 600 is the premier joint sealing material both for new construction and remedial applications. Typical applications for illmod 600 include:

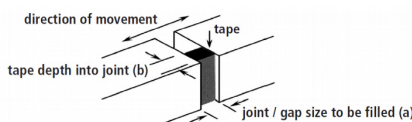
- Precast concrete joints sealing
- Vertical expansion joints
- Brickwork joints
- Window sealing
- Door seals
- Repair of damaged joints
- Alternative to wet sealing and backer rod
- Primary seal in window sub-head/sub-sill tracks
- Roofing metal decks
- Metal panels

## FEATURES & BENEFITS

- Provides thermal and acoustic insulation values that improve the occupant comfort and experience.
- Will resist wind driven rain up to 113 km/h wind (600 Pa) without the addition of sealant.
- Breathable material allows for vapour diffusion, minimising the risk of condensation at the window frame.
- Friction fit and pressure seal ensure the product continually expands and contracts to accommodate movement whilst still sealing the joints. Does not rely on a chemical bond like traditional sealants.
- Self-adhesive on one side aids contractor installation and holds the tape in place until the tape expands.
- Can be painted with commercially available acrylic paint to provide the client with the desired aesthetics.
- Can be installed during inclement weather like rain and cold temperatures.
- Proven wind driven rain resistance since 1965 ensures long term performance.

## PACKAGING & COLOURS

COLOUR	JOINT/ GAP SIZE	TAPE DEPTH	ROLL LENGTH	MATERIAL SAP CODE
Black	3 - 7mm	15mm	8m	275063 503
Black	7 - 12mm	20mm	4.3m	275077 503
Black	8 - 15mm	25mm	3.3m	275070 503
Black	13 - 24mm	30mm	5.2m	275058 503
Black	17 - 32mm	30mm	4m	275059 503



## TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Density	ASTM D3574	88.10kg/m <sup>3</sup> - 104.1kg/m <sup>3</sup>
Tensile Strength	ASTM D3574	144.8 KPa minimum
Thermal Conductivity	DIN 52612	< 0.048 W/m/K
Vapour Resistivity	DIN 52615	μ < 100
Air Permeability	DIN 18542	< 0.1 m <sup>3</sup> / [h.m{daPa}2/3]
Life Expectancy		Greater than 25 years
% Elongation	ASTM D3574	120%
Movement Capability	ASTM C719	+/- 25%
Compression Set	ASTM D3574	4.2% Maximum
Stain & Bleed	DIN 18542	Pass
Stain & Bleed	ASTM C510	Pass
Resistance to UV & Moisture	DIN 18542	Pass
Water Penetration (Uniform Static Pressure)	ASTM E331	574 Pa
Water Penetration (Cyclic Static Pressure)	ASTM E547	574 Pa
Flame Spread	ASTM E84	0
Smoke Index	ASTM E84	5
Chemical Compatibility	DIN 52423	No signs of corrosion on zinc, steel, galvanised steel, aluminium & copper. No adverse chemical effects on concrete, light-weight concrete, brick, natural stones, perspex or timber.
Shore A Hardness (at 80% Compression)		25
Application Temperature		No restrictions
Service Temperature		-30°C to 90°C

illmod 600

## SHELF LIFE

2 years when stored as recommended in original unopened packaging.

## STORAGE

2 years when stored horizontally in dry conditions between 1 to 20°C.

## LIMITATIONS

illmod 600 is not recommended for:

- ❑ Use on natural rubbers such as EPDM, PVC or TPO.
- ❑ Use on bitumen will result in discolouration.
- ❑ Contact with hydrocarbon solvents and corrosive chemicals.

## SUBSTRATE PREPARATION

- ❑ All surfaces must be clean, sound & free from dust, oil, rust, release agents or any other contamination.
- ❑ Leave new concrete for a minimum of 24 hours after stripping formwork prior to installation of illmod 600.
- ❑ When used on remedial work, all existing sealant must be removed.

## JOINT DESIGN CONSIDERATIONS

illmod 600 may be used in vertical or horizontal joints designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement but not less than 6 mm.

## METHOD OF APPLICATION

1. Measure the width and depth of the joints that are to be sealed.
2. Select the appropriate size of illmod 600 from the chart above or call Tremco for assistance at (02) 9638 2755.
3. Cut off the first 5 cm of the roll and discard.
4. Cut the length needed off the roll, leaving an extra 13mm for every 1 meter of length.
5. Seal the vertical joints starting at the bottom and work up, butting each new piece into the previous.
6. Apply a liberal amount of Dymonic FC, Dymonic 100 or TREMglaze 25 between the butt joints. Use a putty knife or spatula to ease installation if needed.
7. If the self-adhesive backing is too sticky it can be temporarily neutralised by spraying the illmod 600 with water.
8. For aesthetic purposes it may be useful to recess the seal 2 - 3mm below the surface of the joint.
9. If the joint is wet and the self-adhesive backing becomes ineffective, use the shims to hold the seal in place until it expands enough to support itself.
10. illmod 600's expansion rate is relative to the temperature outside. If working on very cold days, a hair dryer or heat gun can be used to accelerate the expansion rate. If working on hot days, storing the illmod 600 rolls in an esky will slow down their expansion rate, giving the applicator more time to properly place them in the joint.

## CLEAN UP

No clean up required.

## HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

## TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

## GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge.

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.