

TP610

NG Impregnated Sealing Tape

Expanding foam tape

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Description

TP610 NG is a soft and flexible open cell polyurethane foam, impregnated with an acrylic based, UV stabilised resin. The resin is water repellent and contains a fire retardant. It is supplied as pre-compressed rolls with a self-adhesive side to aid initial location. Weathertight, it satisfies most requirements as an external weather seal in building and civil engineering applications.



Features and Benefits

- Maintains the energy rating or U-value of the installed window when used in conjunction with FM330.
- Driving rain tightness to 600 Pa.
- Breathable
- Thermal and acoustic insulation

Usage Purpose

Impregnated foam tape which can be used for weathertight sealing of perimeter joints around windows and doors. In order to provide thermal insulation within the perimeter joint and maintain the energy rating of the window, it is recommended to also use FM330 Pro Foam Airseal. The use of this system will maintain the energy rating or U-value of the installed window and prevent thermal bridging through the perimeter gap. TP610 NG is available in a range of widths and thicknesses.

Packaging

Supplied on rolls, pre-compressed, with single-sided self adhesive to aid initial location.

Available Colour

Anthracite

Shelf Life

9 months when stored in cool, dry conditions in original unopened containers.

Storage

Store in dry, shaded conditions between +1°C and + 20°C.

Size Range for TP610

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Tape reference	Suitable joint depth options (mm)(1)	Suitable joint width for 600 Pa (mm)	Suitable joint width for 450 Pa (mm)	Roll length (m)
2	10, 15, 20	2	-	10.0
3	12, 15, 20	3	-	8.0
3-7	15, 20	3 to 4	3 to 7	7.0
4-10	15, 20	4 to 5	4 to 10	5.6, 6.0
5-12	15, 20, 25	5 to 7	5 to 12	4.3
6-14	20	6 to 10	6 to 14	3.6
7-15	20, 25, 30, 40	7 to 11	7 to 15	3.3
9-18	20, 25, 30	9 to 14	9 to 18	6.5
11-24	30	11 to 24	-	5.2

Technical Characteristics

Driving Rain Resistance	EN 1027	Requirements are fulfilled up to 600 Pa where indicated in the table above.
Water Vapour Diffusion	EN 12572	Sd value < 0.5 m
Compatibility With Construction Materials	DIN 18542	Meets the requirements
Service Temperature		-30°C to +90°C

Usage Guidelines

Installation in construction joints:

If installing tape into a construction joint, it must be applied from bottom to top to avoid stretching of the tape. Ensure the tape is recessed by a minimum of 2 mm into the joint.

A wedge may be used to hold the tape in position until it is expanded. At the end of a roll, cut off the tape wedge finish. Repeat the process with a new roll, making a close compressed butt connection as shown in (Fig. 2). For crossing joints (Fig 3.) cut the TP610 NG at 90° and ensure that the two horizontal ends compress tightly against the vertical section.

Installation in window joints:

The tape must be applied in four separate lengths with tight butt joints formed at corners. Apply the horizontal lengths before the vertical ones. Allow an excess 20 mm length of tape per metre of opening dimension and form 'loops' to facilitate insertion per Fig 1.

Necessary Tools

Tape measure, flat blade, cutting shears, metal skewer.

Application

Remove any contamination or mortar residue from the reveal. Any areas where significant undulations or damage is present should be repaired locally using an appropriate mortar. Check presence and condition of DPM and ensure cavities are filled/closed prior to fitting the new window.

Normally the tape is applied to the window after installation, however it can be applied before if preferred.

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For replacement window applications, assuming internal plaster finish is to be undisturbed, apply FM330 Pro Foam Airseal to provide thermal insulation using an illbruck gun (e.g. AA250 Foam Gun Pro) into the perimeter gap from the external side to a depth of approximately 50% of the frame thickness (e.g. 35 mm deep for a 70 mm frame) and allow to cure. Do not apply too much foam (allowing for post-expansion) so that there is insufficient space for application of the TP610 NG tape. (If access to the inside of the joint is possible due to removal of internal finishes, or on new-build, apply the FM330 foam from the inside after application of the TP610 NG and following full expansion) (See Fig. 5).

Select tape size from the table above. The joint width must be within the variation of the tape size (thickness) selected. It is advisable to select the tape size based on the nominal joint width being in the middle of the range depending on the required weathertightness requirements.

Cut off the wedge shaped start of the roll and apply the tape to the outer edge of the window frame in the perimeter joint, recessed back from the external frame face by 1–2 mm, applying a separate length for each side to be sealed, bonding with the aid of the self-adhesive. Allow an extra 20 mm/m when cutting the tape length to allow for potential shrinkage - the dimension should be based on the opening size, not frame dimension. Make tight butt joints at the corners and at connections between separate lengths. Pay particular attention to the corner joints (See Fig. 1).

Any unintended small gaps at joints should be sealed with FS125 Premium Frame & Façade Silicone or SP525 Frame and Façade Sealant & Adhesive.

Once this is cured the ends of the window cill and the gap between the underside of the cill and structural opening should be sealed with a suitable sealant (e.g. FS125 or SP525) against the external reveal. Ensure that window cill end caps protrude for the full frame depth rather than just the projecting part of the cill.

If the window is installed into a 'check reveal', apply the TP610 NG to the external face of the window frame, positioned to achieve a 2 - 3 mm set-back behind the external opening. The TP610 NG is normally applied immediately prior to installing the window.

Please Note

High temperatures accelerate tape expansion, while low temperatures delay this. At ambient temperatures above 20°C, the tape should be stored in a cool place on the construction site away from direct sunlight. A small fridge is ideal for this.

Remaining rolls in opened boxes should be maintained in a horizontal state and weighed down to prevent lateral expansion (telescoping) of the rolls.

Whilst it is unnecessary to seal over the external face of the tape, the exposed edge can be plastered or painted over. The compatibility of sealants must be tested. The tape must not come into contact with chemicals containing solvents or aggressive chemicals.

During application, the tape must not be allowed to pre-expand wider than the joint width prior to application. Otherwise, structural stability of the tape may be impaired.

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Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

Health And Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Certification

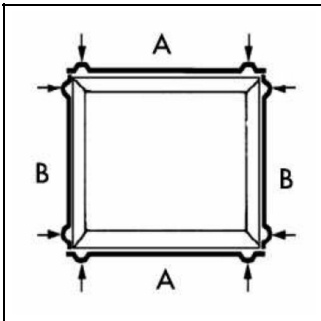


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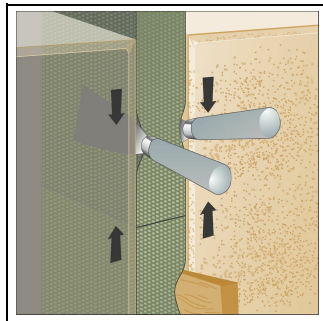
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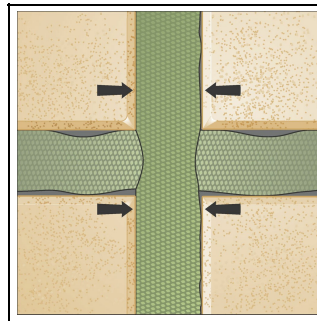
Application Images



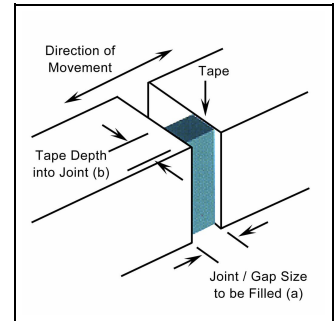
1. Tape applications at corners. Note oversize length 10 mm/m. Install small loop to ensure sufficient length



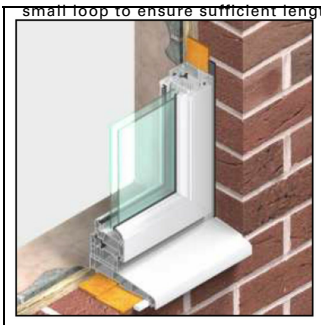
2. Compression of tape joints to make weathertight butt joints



3. Compression of tape to make weathertight cross joints



4. Tape Selection (a) = tape thickness; (b) = tape width E.g. 20/9-18 where (a) = 9 to 18 mm and (b) = 20 mm



5. TP610 and FM330 installed