



MATERIAL SAFETY DATA SHEET

MSDS #: 0042-01P

Effective Date: 10-01-2021

PRODUCT IDENTIFICATION: PTT Trims & Angles Inc. Expansion & Control Joint Trims

TRADE NAME: Plaster Trims & Tape

UVPVC Trims and Angles

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CHEMICAL FAMILY: Plastics

DESCRIPTION:

PTT RENDER & PLASTERBOARD TRIMS & ANGLES are an Australian made range of PVC trims & angles specifically designed for the Render and Plasterboard trades to be used on brickwork, blockwork, polystyrene and fibre cement rendered building systems and internal plasterboard linings.

The products are made from high quality, impact modified and UV stabilized rigid PVC plastic. This plastic is made especially for Australian climatic extremes and is suitable for interior and exterior applications. It contains UV absorbers and all other ingredients used are recommended for applications involving exposure to sunlight.

INGREDIENTS:

TE01 H1 white K226 is an impact modified extrusion grade rigid PVC compound (UPVC). It is suitable for outdoor applications involving exposure to sunlight. All raw materials used in TE01 H1 including pigments are the best known available in Australia with respect to Stability.

TE01 H1 white K226 has been used in exterior applications for many years with no recorded cases of material failure. It has also been extensively tested in a QUV Accelerated Weathering Tester - ASTM G154 after 1000 hrs (equivalent to 10 years UV exposure) it showed almost no sign of colour change, loss of gloss or any cracking.

PHYSICAL DATA:

Hardness (Shore D)	ASTM D2240	82
Tensile Strength at Yield (Mpa)	ASTMD638M	>36
Tensile Strength at Break (Mpa)	ASTM D638M	>31
Specific Gravity (g/cc)	ASTM D792	1.48
Elongation at Break (%)	ASTM D638M	>132
Impact Strength (j/mm)	Instrumented Impact Method	>9
Vicat Softening Point (C)	ASTM D1525 120C/hr	>73
Heat Distortion Temp (C)	ASTM D648	
	@455 kPa	>67
	@1820 kPa	<59



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EXPANSION / CONTRACTION CAPACITY

PTT Expansion / Control Joint Trims have been manufactured with a flexible central spine which enables this product to expand and contract due to building or substrate movements. The tolerance for this movement is:

42-REXP	42-REXP-2.5	42-REXP-3.5	42-REXP-6	42-RSEXP-3.5-Sealant Expansion
Expansion + 3mm	Expansion + 3mm	Expansion + 3mm	Expansion + 3mm	Expansion + 3mm Dependent on Sealant
Contraction -3mm	Contraction -3mm	Contraction -3mm	Contraction -3mm	Contraction -3mm Dependent on Sealant
52-PEXPH	52-PSJC			
Expansion + 3mm	Expansion + 2mm			
Contraction - 3mm	Contraction - 2mm			

Note: Sealant Expansion Joint

Application: The Render Sealant Expansion Joint 42-RSEXP-3.5 has been designed for external use. It is recommended that it be used in conjunction with quality Patch Type Renders and Quality Sealants & Primers (see list below as a guide). The 42-RSEXP-3.5 has been designed to assist in the prevention of cracking as a result of building movement. The rear section of this expansion joint will separate into two pieces if subjected to extreme movement in the substrate.

Installation: The 42-RSEXP-3.5 should be applied with a high quality patch render. Once it has been set in position, the orange tear-off cap must be removed and ideally replace the entire orange strip with a foam backing rod, the trim can also be snapped or cut to create complete separation. The resultant void must be cleaned with a quality Primer (see list below) to remove any onsite contamination to achieve maximum bond. A suitable UV Sealant (see list below as a guide) must be applied to the void ensuring good adhesion to the internal sides of the 42-RSEXP-3.5.

SikaflexPRO	Cleaner / Primer: Sika-Cleaner 205	Expansion Ability: 3mm
Bostik Seal N FlexFC	Cleaner / Primer: Bostik 5077	Expansion Ability: 3mm
Selleys Flexiseal	Cleaner / Primer: Selleys	Expansion Ability: 3mm
Soudal Multibond MS35 Seal & Stretch	Cleaner / Primer: Soudal	Expansion Ability: 3mm

The flexible Expansion and Contraction characteristics of the 42-RSEXP-3.5 as well as its ability to create a waterproof barrier are entirely dependent on the Sealant. Caution must be exercised to make sure the bond between the sealant and the plastic trim does not break or open. In the event that the building movement is greater than the expansion ability of the sealant, the void should be resealed to prevent water ingress.

FIRE HAZARD:

PTT Render Trims & Angles are made from pure UVPVC that comply to the Australian standards for Bushfire Prone areas AS3959 2009 as measured by AS1530.2 1993 methods for fire testing on building materials, components & structures Part 2 test for flammability of materials.

Plaster Trims products are made from a self-extinguishing material. If a fire occurs where bulk PVC compounds are stored, fire fighters must wear breathing equipment as PVC compounds release hydrogen chloride if burnt.

HANDLING & STORAGE:

Store flat and below 25° and away from any solvents.
Lay flat during transit.

ADHESION:

PTT RENDER TRIMS & ANGLES are designed with a 15.7mm triangular hole pattern spaced every 5.29mm apart this maximizes the amount of (rendering) material protruding through angle to give it superior strength and bonding. It also has a knurled surface to the inner & outer surfaces for added adhesion.

PTT PLASTERBOARD TRIMS & ANGLES are designed to give maximum adhesion with minimum material wastage. The inner hole pattern ranges from 3mm to 5mm holes. The four rows of holes maximize the amount of compound adhesion.

PTT RENDER MESH EXTERNAL ANGLES come with fiberglass matting attached to the inner face of the angle. This allows maximum structural strength with the added guide of the PVC corner bead. The fiber mesh is 160 gram on a 4mm grid attached to the angle and extends approximately 80mm to one side and 120mm to the other side.



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TECHNICAL INFORMATION:

RENDER EXTERNAL TRIM FIXING

Render Trims should be fixed in accordance with the system or render manufacturer's directions which is usually adhering the trims with the applicable quality render compound or cement based adhesive (e.g. quality patch render) making sure the cement based adhesive fully covers the substrate & the trim to obtain complete adhesion between the two surfaces.

REVEAL & SILL FIXING & SEALING BETWEEN TRIMS & WINDOWS / SGD

Fix in accordance to the system or compound manufacturer's recommendations making sure the cement based adhesive (e.g. quality patch render) fully covers the substrate & the trim to obtain complete adhesion between the two surfaces.

Where Reveals & Sills are exposed to full sun, where dark colours are to be used or the Reveal or Sill is over 75mm wide we recommend to fully render the reveal or sill using a PTT Render External such as 42-RE-01 – Adjustable angle or 42-RE-2.5, 42-RE-3.5, 42-RE-4.5, 42-RE-6 which ever suits the required render build. Render Reveal & Sill Trims should be wiped clean using a clean dry cloth and flashed with an acetone cleaner (e.g. Bostik-5077 or Sika-Cleaner 205) and sealed between the trim and framing with Bostik Seal N FlexFC, SikaflexPRO or Soudal Multibond MS35 Seal & Stretch.

Flammability Test Results

PTT as a ISO9001 accredited company is the market leader in the Australian manufacturing of quality Flame Resistant (FR) UVPVC angles & trims for render and plasterboard.

The flammability test was done by our raw material supplier in Sydney, APN Compounding using PTT angles made from our special formulation of TEO1 H1.

The test was conducted by a NATA registered company AWTA Product Testing on the 18 August 2020 to comply with Clause 7, Table 4 of BCA specification C1.10 which requires other materials and insulation to have a spread of flame index <9 (PTT result 0) and a smoke developed index <8 (PTT result 6) if the flame index is more than 5 (PTT result 0), copy of the test results attached.

The PTT products passed all tests.

WARRANTY:

Plaster Trims & Tape (PTT) warrants its products to be free of defaults in materials and manufacture for 15 years. If a PTT product does not meet our standard, we will at our option replace or repair it or supply an equivalent product.

PTT will not be liable for any application failures, care must be taken to follow your system recommendations for fixing and adhering any PTT product. PTT products are only one component of any system therefore the responsibility is on the contractor to follow the systems instructions. Any claim shall be deemed waived unless made in writing to PTT within 30 days from the date it was purchased from PTT or a PTT distributor.

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