

APTC Proflex MS

MS polymer based elastomeric sealant

Description

APTC Proflex MS is an advanced MS Polymer based elastomeric sealant specially designed as a low modulus solution for sealing applications. It has excellent weather resistance, $\pm 25\%$ movement capability and is compatible with water based waterproofing membranes.

APTC Proflex MS has a faster curing rate than polyurethane sealants and will not bubble.

Uses

APTC Proflex MS is suitable for use in multiple applications including but not limited to:

- Wall to wall and wall to floor junctions
- Perimeter sealing of doors and windows in buildings where a paintable elastic seal is essential

Suitable substrates: glass, PVC, aluminium, concrete, brick, most metals, polyester coatings and some plastics

Features & Benefits

One component—easy to use	Low VOC
Low modulus	Isocyanate free
$\pm 25\%$ movement capability	Paintable
Good UV resistance	

Specifications and Technical Properties

	METHOD/STANDARD	
CURING SYSTEM		Moisture cure
SKIN FORMATION	(25°C / 50% RH)	≈60 minutes
CURING RATE	(23°C / 50% RH)	≈4mm/24h
SPECIFIC GRAVITY		1.65g/mL
TENSILE STRENGTH	ASTM D412	: 1.1 N/mm ²
SLUMP	ASTM D2202	: <1mm
ELONGATION AT BREAK	ASTM D412	: 600%
SHORE A HARDNESS	ASTM C661	: 30
MOVEMENT CAPABILITY	ASTM C719	$\pm 25\%$

Surface Preparation

All surfaces and substrates must be clean and sound. Any loose particles, grease, oils, silicones, standing water curing compounds or laitance must be removed before application of the product.

Clean impervious surfaces with a 2 wipe solvent clean and abrade porous surfaces.

Primer:

For superior adhesion primer should be used on porous substrates such as concrete. Please consult with APTC Australia for recommendations of suitable primers.

Joint Design:

Joints should be designed to accommodate both the sealants movement capability and expected joint movement.

- Joint width should range from a minimum of 6mm to a maximum of 35mm
- Joint depths should range from a minimum of 6mm to a maximum of 12mm. For sealant depths exceeding 10mm an approved backing material should be used as necessary

For best performance the following depth to width ratio should be applied:

Joint size	Depth to width ratio
Up to 12mm	1:1
12mm to 35mm	1:2

Sealing joints with wider widths is feasible however vertical applications may cause the sealant to sag.

Avoid 3 sided adhesion. If there is potential for 3 sided adhesion use a bond breaker tape or backing rod to eliminate.

Refer to APTC Australia for technical advice on joint design

Pre-testing for adhesion

Where adhesion is critical to the success of the project, APTC Australia requires preliminary pre-testing of adhesion and compatibility prior to the commencement of application.

Pre-testing for adhesion is intended to eliminate potential field problems. Variability on the quality, type, cured properties and surface contaminants can affect adhesion. Pretesting will aid in determining the proper surface preparation method.

Application

APTC Proflex MS can be applied using a quality sausage applicator gun.

Cut nozzle to the desired width and cut crimp on sausage. **Do not cut the tip of the nozzle smaller than 6mm wide.** Extrude the sealant firmly into the joint ensuring it completely fills all cavities and wets out both sides of the joint.



Head Office
18-22 Pacific Drive
Keysborough Victoria 3173

1300 394 239
aptcaust.com.au

Application cont'd:

Tool sealant off before skinning to ensure a quality finish. Clean/wipe excess sealant using a suitable sealant tool. Masking tape can be used but must be removed before sealant begins to skin.

Painting:

APTC Proflex MS can be painted with water based and most 2 component paints. Synthetic paints may need longer drying time. Testing of paint compatibility is recommended before application.

Clean up

Fresh/wet sealant can be cleaned using white spirits. Once cured, sealant can only be removed through mechanical means.

Available colours

Black, Concrete Grey, Grey, Misty Grey and Panel Grey

Packaging & Shelf Life

Packaging: 600ml foil sausages

Storage/shelf life: 12 months from production date in unopened packaging. Store in a cool and dry place at temperatures below 30°C.

Limitations

APTC Proflex MS is not suitable for use in the following applications:

- Where the application temperature is less than 5°C or greater than 40°
- Below the waterline or subjected to continuous water immersion
- Outdoor sealing or bonding near glass substrates
- On polyethylene, polypropylene, polytetrafluoroethylene (Teflon) surfaces, neoprene rubber or bituminous materials
- Where sealant is to be overcoated with Alkyd resin paint (may inhibit paint curing), chlorinated paint (may cause staining issues) or oil based paint (not compatible)
- The suitability of the product for each intended use must be determined by the purchaser prior to application of the sealant

Health & Safety

APTC Australia supports best practice in material handling; gloves, mask, safety goggles and protective clothing should be worn when handling and using this product. Ensure adequate ventilation when applying.



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Health & Safety cont'd:

May cause an allergic skin reaction. Keep out of reach of children. **SKIN:** If product comes into contact with the skin, remove contaminated clothing and wash off with warm soapy water. **SWALLOWED:** If swallowed, do NOT induce vomiting. Give a glass of water and seek medical advice. **EYES:** In case of contact with eyes, hold eyes open, flood with water for at least 15 minutes and seek medical advice. **INHALED:** Remove from contaminated area, seek medical advice.

If poisoning occurs contact a Doctor or Poisons Information Centre Ph. 13 11 26 (Australia). If advice is needed have product container or label at hand.

Safety data sheets (SDS) for this product are available on the APTC Australia website www.aptc Aust.com.au. Read the TDS and SDS carefully before using any product.

Disclaimer

The information and recommendations provided regarding the application and use of APTC Australia products are based on APTC Australia's current knowledge and experience, assuming proper storage, handling, and application according to our guidelines. However, due to variations in materials, substrates, and site conditions, we cannot guarantee any warranties related to merchantability or fitness for a particular purpose, nor assume any liability based on this information, written recommendations, or other advice. Users must assess the suitability of the products for their specific application and purpose. APTC Australia reserves the right to modify product properties at any time. Third-party proprietary rights must be respected. All orders are subject to our current terms of sale and delivery. For the most up-to-date product information, users should refer to the latest version of the local product data sheet, which can be provided upon request.

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