

APTC ProSpec 350

High performance silicone sealant

Description

APTC ProSpec 350 is a high performance, non-slumping weatherproofing silicone sealant. Featuring a 100% neutral cure formulation and a matte finish, it offers excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants and many cleaning detergents and solvents.

Specially designed for superior performance, **APTC ProSpec 350** has low VOC emissions and cures to a permanently elastic state that can accommodate movement of +/- 50%.

APTC ProSpec 350 complies with the rigorous standards of ASTM C920

Uses

APTC ProSpec 350 will create a robust weatherproof seal on a variety of common building materials and is suitable for indoor and outdoor applications.

Suitable substrates: Glass, aluminium, galvanized and zinc-coated steel, painted surfaces, brick and concrete.

Features & Benefits

100% neutral cure silicone	Low VOC
Permanently flexible +/- 50% movement capability	Complies with ASTM C920, ASTM C719 and Sirim Test – ASTM D412:2016
Weatherproof seal suitable for indoor & outdoor applications	Matte finish

Technical Specifications

	METHOD/STANDARD	
CURING SYSTEM		Moisture curing, neutral
SPECIFIC GRAVITY		1.33g/mL
SLUMP	ASTM D2202	<1MM
SHORE A HARDNESS	ASTM C661	33
MOVEMENT CAPABILITY	ASTM C719	±50%
MAXIMUM TENSILE STRENGTH	ASTM D412	1.3N/mm
ELONGATION AT BREAK	ASTM D412	360%
ADHESION IN PEEL	ASTM C794	>35 N
LOW VOC COMPLIANCE		Yes
AVAILABLE COLOURS		Matte Black

Surface Preparation

All surfaces to receive sealant must be clean and dry and free of contaminants such as oil, grease, wax, water and surface dirt. Oxidised material such as aluminium oxide or rust must be removed from the substrate prior to cleaning.

Cleaning of impervious substrates (glass, powder coat, steel):

An approved solvent cleaner such as Isopropyl Alcohol (IPA) should be used to clean impervious substrates. The 'two wipe' solvent technique should be used adopting the following procedure:

- Use only clean, lint free cloths or lint free paper towels. Non absorbent cloths such as nylon are not acceptable.
- Apply solvent to one cloth by pouring onto to the cloth; do not place the cloth into the solvent container.
- Rub the substrate vigorously
- Wipe the solvent off the substrate using another clean cloth before the solvent has flashed off or evaporated.
Do not use the same cloth to apply the solvent and to dry the substrate.
- Do not re-use the same cloth, discard the dirty cloth

Soap or other detergents are not acceptable for cleaning the substrate

All gaskets, wedges or backing rods should be placed before cleaning the substrate.

Apply the sealant immediately after cleaning. Do not leave cleaned areas before sealing.

Joint Design:

The sealant bead size should be determined based on the sealants ability to handle compression and extension relative to the expected joint width changes caused by expansion and contraction.

- The calculation of the sealant bead width should be based on a maximum $\pm 50\%$ movement capability. Consult the relevant data sheets and technical bulletins to calculate the joint width for the expected joint movement.
- Minimum joint width should be at least 6mm to allow for movement
- The optimal design ratio of joint width to depth should be 2:1

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 ProSpec 3 can be applied using a quality cartridge applicator gun.

- Cut the nozzle to the desired width, and cut the tip off the cartridge. Do not bend the nozzle.
- Extrude sealant into the joint ensuring it completely fills all cavities and wets both sides of the joint.

Application cont'd

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

Product will be tack free within 30 minutes at 25° 50% RH

Clean up

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

Packaging & Shelf life

Packaging: 300ml cartridges

Storage/shelf life: 12 months from date of manufacture when stored in a cool and dry place at temperatures between 5°C and 30°C.

Limitations

APTC ProSpec 350 is **not** suitable for use in the following applications:

- Structural glazing applications
- Aquariums or fish tanks
- Submerged or continuous water exposure including pools, spas and ponds
- Natural stone & other porous substrates
- Mirrors backs and splashbacks
- Polycarbonate and polyacrylate under tension
- Applications where painting over the sealant is required or necessary
- The suitability of the product for each intended use must be determined by the purchaser prior to the application of the sealant
- A written specification is required for all cladding applications

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.

Product 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 immediately give a glass of water. Do NOT induce vomiting. **EYES:** In case of contact with eyes, hold eyes open and 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).

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



Disclaimer

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