



# APTC Proseal 1 BLN Silicone

## Neutral cure glazing silicone sealant

### Description

**APTC Proseal1** is a high-quality, one-component neutral cure silicone sealant. Designed for a variety of glazing, sealing, and professional caulking applications, it cures to form a durable, weather-resistant seal and will adhere to most common substrates without the use of a primer.

**APTC Proseal1** is non slumping, demonstrates excellent resistance to UV and weathering and has a strong and elastic seal capable of withstanding up to  $\pm 25\%$  joint movement.

### Uses

**APTC Proseal1** is suitable for use in the following applications:

- Glazing and weather sealing
- Cladding
- General purpose sealing and caulking

**Suitable substrates:** Glass, aluminium, powder coated aluminium, steel, timber, masonry, some plastics

### Features & Benefits

Neutral cure	Non slumping
One component	Capable of up to $\pm 25\%$ joint movement
Primerless adhesion of wide range of substrates	Durable—long life reliability
Excellent UV and weather resistance	Easy to use

### Available colours

Translucent, Black, Light Grey, White

### Specifications and Technical Properties

SKIN FORMATION	30 minutes (@ 25°C / 50%R.H)
SPECIFIC GRAVITY	Translucent = 1.03, Colours = 1.40
SHORE A HARDNESS	Translucent = 27, Colours = 32
TENSILE STRENGTH	1.10 MPa
ELONGATION AT BREAK	400%
TEMPERATURE STABILITY	-20°C to 120°C



## Surface Preparation

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

### Primer:

**APTC Proseal 1** will generally provide excellent adhesion without the use of a primer on most non-porous substrates. Porous substrates may require pre-treatment before application. 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.

- Minimum joint depth 6mm
- Minimum joint width 6mm
- Maximum joint width 50mm

For best performance and maximum adhesion on larger joints, the width of the joint should be greater than the sealant depth.

Refer to APTC Australia for technical advice on joint design

### Backing Rod:

Backing rod such as closed cell polyethylene or open cell polyurethane can be used in the joint to ensure correct sealant depth and avoid 3 sided adhesion.

All backing materials, setting blocks, spacer shims and tapes should be placed before application of the sealant.

## 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 Proseal 1** can be applied using a quality cartridge applicator gun.

Cut nozzle to the desired width and screw onto the cartridge

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](http://aptcaust.com.au)

### **Application cont'd:**

Tool sealant off immediately using light pressure to achieve a concave shape and ensure an even spread of sealant against the backing material and joint surface. Sealant must not be allowed to form a cured skin before it is tooled.

Masking tape can be used but must be removed before sealant begins to skin.

Application temperature must always be between 5°C and 50°C.

### **Painting:**

**APTC Proseal 1** cannot be painted and must not be applied to freshly painted surfaces.

### **Clean up**

Fresh/wet sealant can be cleaned using a commercial cleaner or solvent. Cured sealant is not soluble and can only be removed by trimming with a blade. Avoid undercutting the seal.

### **Packaging & Shelf Life**

Packaging: 300ml cartridges

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

### **Limitations**

**APTC Proseal 1** is not suitable for use in the following applications:

- On frost-bearing surfaces or if temperature is below 5°C or above 50°C
- Structural glazing applications
- On mirror backs or where sealant will come in direct contact with reflective coatings on mirrors
- Highly porous substrates such as marble or natural stone where sealant may bleed into or affect substrate appearance
- Aquariums, fishtanks, under water applications or where chlorides are present (swimming pools)
- Continuous water immersion
- Where sealant is in direct contact with food or drinking water
- To copper or copper containing materials
- In below ground joints or trafficable joints
- To building materials that bleed oils, plasticizers or solvents such as impregnated wood, oil based caulks, green or partially vulcanized rubber gaskets or tapes
- To other uncured sealants



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## Limitations cont'd:

- The suitability of the product for each intended use must be determined by the purchaser prior to the 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.

Product may cause an allergic skin reaction and serious eye irritation. Keep out of reach of children. **SKIN:** If product comes into contact with the skin, remove contaminated clothing & wash off with warm soapy water. Seek medical advice if irritation occurs. **SWALLOWED:** DO NOT induce vomiting unless directed to do so by medical personnel. Seek medical attention. **EYES:** In case of contact with eyes, hold eyes open and flood with water for at least 15 minutes. Remove contact lenses if present after the first 5 minutes. Seek medical advice. **INHALATION:** Remove from contaminated area and keep comfortable. 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

## 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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