

# Proseries Adhesive and Sealant

Updated  
11/10/2010

## DESCRIPTION

Proseries Adhesive Sealant is a one-component polyurethane that is tough, fast curing and permanently elastic for flexible bonding and sealing. It has excellent adhesive and sealing properties, is weatherproof, and suitable for indoor & outdoor applications. It is sandable and paintable when cured.

## SIZES AVAILABLE

It is available in a 410g aluminium cartridge and 600ml sausage that is available in white, grey and black.

## USES

Proseries Adhesive Sealant is suitable for bonding and sealing common building materials such as concrete, masonry, brick, ceramic tiles, metals, soft wood, hard wood and some plastics (will not adhere to polyethylene & polypropylene – test other plastics first).

Suitable for +/- 12.5% joint movement.

### As an adhesive for:

- Lightweight construction materials
- Cover plates, gaskets and coverings.
- Acoustic ceiling tiles
- Floor mouldings and door sills
- Wood, metal or plastic window and doorframes.

### As a sealant for:

- Ventilation ducts, roofing, gutters and spouts
- Flexible draught proofing
- Sealing duct, pipe & other penetrations in walls or floors
- Fastened/riveted lap joints, flanges, crimped and interlocking surfaces.
- Window and door perimeters
- Joints in tiled, concrete floors, parking lots.

## TECHNICAL FEATURES

- Fast curing and non-shrinking
- Weatherproof
- Excellent adhesion
- Thixotropic (Non slumping)
- Permanently elastic over a wide range of temperatures.
- Low dirt pick up
- Solvent and PVC free
- Paintable - can be painted with many water and solvent-based paints (pre-testing paint is recommended).

## HOW TO USE

(For easier gunning in cold weather store product at approx 20 °C.)

- Surface must be clean, dry and free from oil, grease, release agents, dust and loose material.
- Completely perforate the metal seal inside the cartridge nipple trim nozzle and fit onto cartridge. Insert into caulking gun.

### As an adhesive:

- Apply a bead or small blobs of adhesive on the surface. Assemble parts together and clamp firmly to hold until cured.
- Remove excess adhesive immediately. After drying, any excess adhesive can only be removed mechanically.
- Initial bond achieved in 24 hours depending on temperature and humidity. Bond strength increases over a few days.

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### As a sealant:

- Mask edges if required. Extrude sealant into the joint such that it is in full contact with the sides of the joint. Avoid overlapping of sealant to eliminate entrapment of air.
- Smooth sealant with spatula forcing the sealant into the joint for better contact with the sides of the substrate.
- Sanding and painting is possible after curing. Pre-testing paint is recommended.

For best performance, install backing rod (polyethylene or polyurethane foam rod) in joint to control sealant depth and ensure free movement of sealant in joints. Remove masking tape before sealant skins.

### Priming: Proseries Adhesive Sealant

generally has good adhesion properties without priming to common building materials indicated. Pre-test to ensure adhesion is suitable.

### Theoretical coverage:

Length of joint (m) per cartridge =  $310\text{mL} \div [\text{Joint width (mm)} \times \text{joint depth (mm)}]$

### Used as a Joint sealant:

Joint configuration guidelines:  
For joint widths up to 12mm  
Width/depth = 1/1 or w=d  
Minimum depth = 6mm  
For joint widths 12mm – 40mm  
Width/depth = 1/0.5 or w=2d

### Clean-Up

Clean tools and equipment immediately after use with mineral turps.  
Cured sealant can only be removed mechanically.

### TECHNICAL DETAILS

(Test data below is indicative only and not intended for the setting of specifications.)

Property	Typical Result
Appearance	Thixotropic paste
Colours	White, grey and black
Chemical Type	Polyurethane
Curing Method	By reaction with moisture from the air and surrounding materials
Specific Gravity	1.40Kg/L
Tack Free Time (23 °C; 50% R.H)	+/- 70 minutes
Curing Time (23 °C; 50% R.H)	4mm/24 hours
Application Temp.	+5 °C to +30 °C
Service Temp.	- 40 °C to + 80 °C
Shore A Hardness (DIN 53505)	35 - 40
Elongation at Break (DIN 53504)	+ 400%
Elastic Modulus 100% (DIN 52455)	+/-0.7N/mm <sup>2</sup>
Tensile Strength (DIN 53504)	+/- 1.5 N/mm <sup>2</sup>
Elastic Recovery (DIN EN 27389)	80%

### Shelf life / Storage:

12 months in unopened cartridges in cool, dry conditions (below 30 °C).

Opened cartridges should be used up as soon as possible. For temporary storage leave nozzle attached, remove nozzle and expel cured sealant from nozzle before re-use.



## Technical Data Sheet

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### LIMITATIONS

- Requires atmospheric moisture to cure.
- Expansion and contraction should not exceed 12.5% of average joint width.
- Not recommended for continuous submersion or below water line use.
- Do not apply in the presence of curing silicone sealants as cure will be affected.
- Avoid contact with alcohol and other solvent cleaners during curing.
- Application to substrates with high moisture can cause bubbling within the sealant
- Do not use for structural or general glazing.
- Avoid air entrapment while applying sealant
- May affect drying of alkyd/oil based paints
- White sealant will yellow slightly with age and exposure to the sun.
- Do not store product above 30 °C.
- Do not use on Polystyrene (adhesive failure)

### WARNINGS/FIRST AID & SHIPPING

**INFORMATION:** Refer to the **MSDS** section located on the Selleys Website.



Ph: AU - 1300 555 205

Ph: NZ - 0800 735 539

Website - [www.selleys.com.au](http://www.selleys.com.au)

Email - [selleys.customer.service@selleys.com.au](mailto:selleys.customer.service@selleys.com.au)

Head Office: 1 Gow Street, Padstow NSW 2211 AU

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