

# Selleys 675 Crystal Fix

## Description

Based on Advanced Hybrid Technology this multipurpose crystal clear elastic adhesive sealant is designed for where an invisible bond or seal is necessary. High tensile strength offering very broad primer less adhesion on most building materials, with excellent resistance to ageing and weathering making it suitable for internal and external use. It's highly elastic with a movement capability of  $\pm 20\%$ , is and safer for the applicator as it does not contain solvents and isocyanates

## Product Information

Packaging	Size	Colour
Cartridge	290ml	Clear

## Uses

Selleys 675 Crystal Fix is suitable for both bonding and sealing applications such as:

- House interior fitting
- Construction finishing
- Furniture and industrial assembly where a crystal-clear bond or seal is required
- Suitable for transparent bridge and balcony parapets
- Weatherproofing of joints in transparent roof coverings
- Joints between window or door frames
- Mirror and glass assembly.

## Features

- High flexibility with  $\pm 20\%$  joint movement capability
- High tensile strength
- Fast cure, adjustable for 10 minutes
- Broad primer less adhesion on most building materials
- Bonds and seals at the same time
- Excellent resistance to ageing and weathering; colour stable, non-yellowing and non-chalking
- No shrinkage during curing
- Paintable with water-based paints
- Environmentally friendly – Free of isocyanates and solvents.
- Low VOC (Meets GBCA VOC Content Requirement  $< 50\text{g/L}$ )

## Technical Details

Property	Typical Result
Technology	Silyl-Modified Polymer
Colour	Crystal clear
Density	1.06
Application Temperature	5 – 40°C
Skin Time	approx. 15 minutes
Cure Rate	approx. 2.4 mm/24h
Tensile Strength (ISO 37 DIN 53504)	approx. 2.4 N/mm <sup>2</sup>
Shore A Hardness (DIN 53505)	approx. 32
Elongation at Break (ISO 37 DIN 53504)	approx. 320%
Modulus at 100% Elongation (ISO 37 DIN 53504)	approx. 0.8N/mm <sup>2</sup>
Movement Capability (EN 15651/1; ISO 11600)	$\pm 20\%$
Service Temperature	- 40°C / +90°C with short term at 120°C
Indicative data only, not intended for preparation of specifications	

## Surface Preparation

Selleys Flexiseal generally has good adhesion properties without priming to common building materials indicated. For some plastics and pre painted surfaces; priming may be required and a Pre-test to ensure suitable adhesion is recommended.

## Directions for Use

The following should only be used as a guide and the installer should apply all Australian Standards, BCA/NZBC requirements, and best practices when installing.

- Surface must be clean, dry and free from oil, grease, release agents, dust and loose material.
- It is advisable to carry out preliminary adhesion tests on the substrate.
- Cut the end of the cartridge, attach the plastic nozzle and cut it at an angle according to the desired bead thickness and profile.
- Fit the cartridge into a cartridge gun and extrude the adhesive/sealant carefully preventing air entrapment.
- Once opened, packs should be used up within a relatively short time.

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- The optimum application temperature for both substrate and sealant is between 5°C and 40°C.
- Tooling and finishing must be carried out within the skin time of the sealant.
- Selleys 675 Crystal Fix can be overpainted with water-based paint. Apply a water-based primer before applying a solvent based paint.
- Bonded elements may require additional holding or support during curing period.

### Tips

Do not cure in the presence of curing silicone sealants and avoid contact with solvent cleaners during cure as this may interfere with curing of the product.

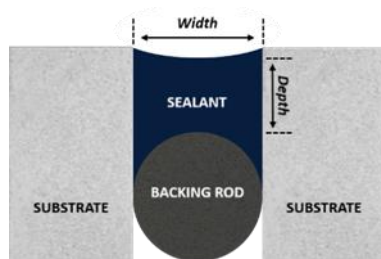
Since system is moisture-cured, permit sufficient exposure to air.

The hardness and film thickness of paint may impair the elasticity of the sealant and lead to cracking of the paint film.

If using to fill expansion joints, the minimum joint width and depth is 5mm. For joint widths up to 12mm, use a width to depth ratio of 1:1. The optimum width to depth ratio for joint widths greater than 12mm is 2:1 as per this table.

<b>Rule: Joint widths &lt; 12mm, width to depth ratio is 1:1</b>							
<b>Width</b>	5mm	6mm	7mm	8mm	9mm	10mm	
<b>Depth</b>	5mm	6mm	7mm	8mm	9mm	10mm	
<b>Rule: Joint widths &gt; 12mm, width to depth ratio is 2:1</b>							
<b>Width</b>	12mm	14mm	16mm	18mm	20mm	24mm	28mm 32mm
<b>Depth</b>	6mm	7mm	8mm	9mm	10mm	12mm	14mm 16mm

Always install suitable diameter backing rod (polyethylene or polyurethane foam rod) in joints to control sealant depth and ensure free movement of sealant in joints as per below.



Wider joints can accommodate more total movement than narrow joints.

Sealant must adhere to sides of the joints only and NOT to the back, so that it is free to stretch.

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.

To maximise durability in outdoor applications paint with a suitable exterior paint.

### Limitations

- Not recommended for continuous submersion or below water line use.
- Do not apply in the presence of curing silicone sealants as cure may be affected.
- Avoid contact with alcohol and other solvent cleaners during cure as cure will be affected.
- Do not use for structural glazing.
- May affect drying of alkyd and oil-based paints unless primed with a water-based primer.
- Will not adhere to PE, PP or PTFE – test other plastics and rubber first.

### Clean Up

Spills and tools can be cleaned up with Mineral Turps before product cures. Cured product can only be removed mechanically.

### Standards

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### Coverage

For general applications a cartridge will cover approximately 32 meters for a 3mm bead.

Estimation of lineal coverage per cartridge for joint filling			
Joint Width (mm)	Joint Depth (mm)	Litre per lineal meter	Meters of Coverage
6	6	0.036	8
8	8	0.064	4.5
10	10	0.100	2.9
12	6	0.072	4

### Storage

Store unopened cartridges below 30°C in a cool dry place away from direct sunlight. Unopened cartridges can be stored for 12 months from the date of manufacture. Opened cartridges will skin and form a lump near the opening. Discard any lumps or skin and remaining product can be used.

### Warnings, First Aid and Shipping Information

This information can be located on the product SDS found through our website – [www.selleys.com](http://www.selleys.com)