



Polyurethane Construction Sealant

Technical Data Sheet – Australian Construction Market

PRODUCT DESCRIPTION

Sealant Works Polyurethane Construction Sealant is a single-component, moisture-curing polyurethane sealant designed for professional construction joint sealing and bonding applications. Once cured, it forms a durable, flexible elastomer capable of accommodating joint movement while maintaining long-term adhesion under Australian climatic conditions.

FEATURES & BENEFITS

- Ready-to-use, single-component sealant
- Low modulus for movement accommodation
- High elongation and elastic recovery
- Excellent adhesion to common construction substrates
- Good resistance to weathering, moisture, vibration, and impact
- Resistant to abrasion and mild chemical exposure
- Paintable with compatible water-based coatings

TYPICAL APPLICATIONS

External façade joints, precast concrete and ALC panels, window and door perimeter sealing, expansion and control joints, waterproofing interfaces, civil construction joints, and drainage structures.

SUITABLE SUBSTRATES

Concrete, masonry, fibre cement, ALC panels, aluminium, steel, timber, and most painted surfaces. Substrate compatibility should be confirmed by on-site testing prior to application.

PACKAGING

400 mL, 500 mL, or 600 mL foil sausages (20 per carton), 20 L pails, and 190 L drums.

COLOURS

White, Black, Concrete Grey.

TYPICAL PROPERTIES (Cured at 23°C, 50% RH)

Property	Typical Value
Appearance	Smooth, uniform
Density	1.30 ± 0.10 g/cm ³
Tack-free time	≤ 3 hours
Elongation at break	≥ 400%
Elastic recovery	≥ 70%
Hardness	25–35 Shore A
Recommended joint width	8–35 mm
Application temperature	+5°C to +35°C

Service temperature	-30°C to +80°C
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APPLICATION GUIDELINES

Joint design should comply with relevant Australian Standards and accepted trade practice. Ensure all joint surfaces are clean, dry, and free from contaminants. Use appropriate backing rod to control joint depth and prevent three-sided adhesion. Apply using a professional caulking gun and tool immediately after application. Allow a minimum of 7 days curing at 23°C before water immersion.

PAINTABILITY

May be over-painted with compatible water-based paints once fully cured. Solvent-based paints are not recommended. Always conduct a compatibility test prior to painting.

CLEANING

Uncured material may be removed using alcohol or acetone. Cured material must be removed mechanically.

STORAGE & SHELF LIFE

Store in a cool, dry place between 5°C and 25°C. Shelf life is 6 months from date of manufacture when stored as recommended. Refer to product packaging for batch and expiry information.

SAFETY

Refer to the Safety Data Sheet (SDS) for information on safe handling, storage, and disposal. Appropriate personal protective equipment should be used during application.

DISCLAIMER

The information contained in this Technical Data Sheet is based on laboratory testing and practical experience. As conditions of use are beyond the control of Sealant Works, no warranty is expressed or implied regarding suitability for any particular purpose. Users must determine the suitability of the product for their intended application.