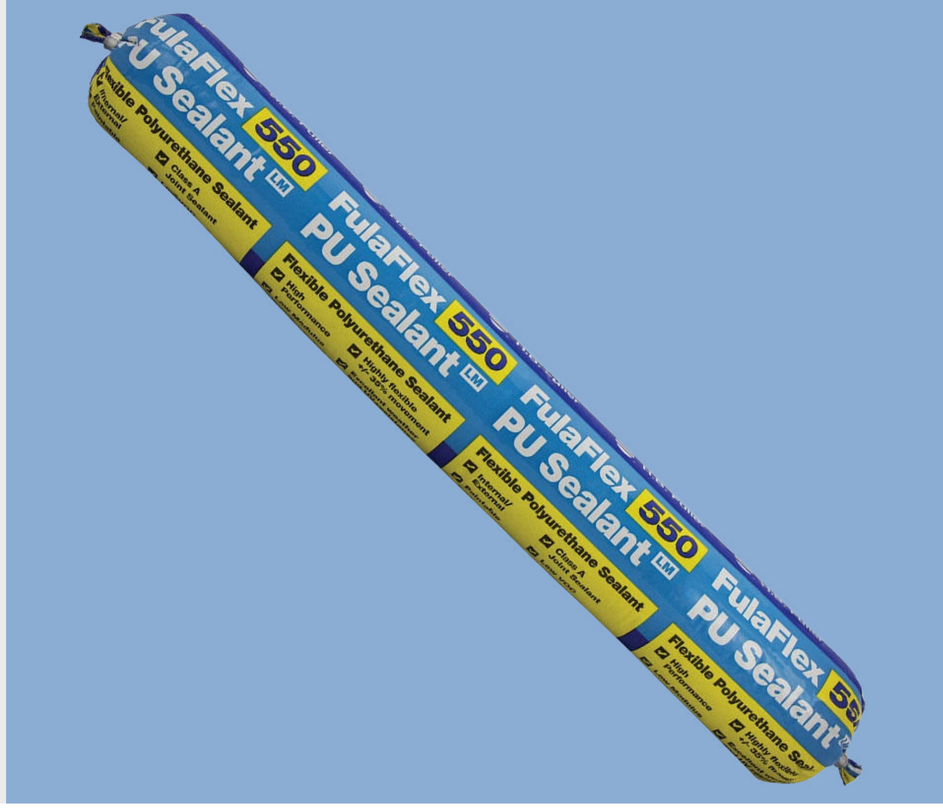
TECHNICAL DATA SHEET

Fulaflex® 550 PU Sealant

PRODUCT DESCRIPTION

Fulaflex® 550 PU Sealant is a one-component, moisture-curing, low modulus polyurethane joint sealant engineered for high movement capability. Designed to cure into a flexible and durable elastomer, it provides outstanding weather resistance, UV stability, and excellent adhesion to a wide range of construction substrates.

With a low VOC content (~58 g/L) and Green Building Council of Australia (GBCA) compliance, Fulaflex® 550 PU Sealant is suitable for sustainable building practices. Its fast skinning and cure rate make it ideal for applications requiring quick turnaround without compromising performance.



FEATURES & BENEFITS

- Low modulus, Class A joint sealant
- Excellent flexibility (tested to ±35% ISO 9047)
- High adhesion to concrete, masonry, fibre cement, timber, and metals
- UV and weather resistant for long-term durability
- Paintable with water-based systems (compatibility testing recommended)
- Fast skin formation and curing for reduced downtime
- Mould resistant – will not support fungal growth
- Low VOC content (~58 g/L) – environmentally conscious choice

APPLICATIONS

Fulaflex® 550 PU Sealant is recommended for:

- Building joints with high movement requirements
- Precast and tilt-up concrete panel joints
- Expansion joints in fibre cement façades
- Connection joints between windows, doors, and walls
- Joints in brickwork, masonry, and blockwork
- Perimeter fillets in waterproofing membrane systems
- Internal and external applications requiring high UV resistance and durability

SPECIFICATION

Product Code	Colour
114810	Fulaflex 550 PU Sealant 600ml Grey

TECHNICAL SPECIFICATIONS

STANDARDS COMPLIANCE

- ASTM C920 Type S, Grade NS, Class 25, Use T1, NT, A, M
- ISO 11600/F/25LM
- DIN 18540/F
- BS 6920-1:2000 (potable water)
- ASTM 793-91 and DIN 11431
- Suitable for use in waterproofing applications in accordance with AS3740-2010 (Domestic Wet Areas)

SHELF LIFE & STORAGE

- Shelf life: 12 months (unopened)
- Store between +5°C and +25°C in a cool, dry place
- Protect from direct sunlight and moisture

SAFETY INFORMATION

- Classified as Hazardous under GHS (Australia)
- Avoid contact with skin and eyes
- Store below 30°C in a dry place
- Keep out of reach of children

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TYPICAL PERFORMANCE DATA

Property	Test Method	Result
Specific Gravity	-	~1.30
Sag	25mm × 12mm joint	0 mm
Tooling Time	-	~40 minutes @ 23°C, 50% RH
Skinning Time	-	~40–60 minutes @ 23°C, 50% RH
Cure Rate	-	2–3 mm/day @ 23°C
Hardness (Shore A)	-	~30
Shrinkage	-	≤4%
Maximum Elongation	-	>700%
Flexibility	ISO 9047	±35%
Elastic Recovery	-	~99% at 100% extension
Modulus (50%)	-	~0.60 MPa
Modulus (100%)	-	~0.70 MPa
Modulus (Max)	-	~2.20 MPa
Service Temperature Range	-	-40°C to +90°C

COVERAGE (600 ML SAUSAGE)

Joint Width (mm)	Joint Depth (mm)	Yield (Linear metres)
6 (min)	6	16.7
10	10	6
12	12	4.2
18	12	2.7
24	12	2.1
30 (max)	15	1.5

COVERAGE VARIES DEPENDING ON JOINT CONFIGURATION AND APPLICATION TECHNIQUE.

COMPATIBLE SUBSTRATES

- Fibre cement sheet
- Ceramic
- Masonry and brickwork
- Plasterboard
- Uncoated metals, aluminium, steel (incl. stainless)
- Zinc/galvanised steel
- Timber
- Some plastics and coated metals (pre-test required)

NOTE: NOT SUITABLE FOR GLAZING APPLICATIONS OR USE ON MARBLE/POROUS STONE WITHOUT TESTING

SURFACE PREPARATION

- Substrates must be clean, dry, and free of oil, dust, loose material, and old sealants.
- Light contamination: clean with Isopropyl Alcohol (IPA) using a 2-rag wipe method.
- Heavy contamination: use wax/grease remover followed by IPA cleaning.
- Abrade metals lightly before cleaning for improved adhesion.
- Install a suitable backer rod or bond breaker tape to prevent three-sided adhesion.

APPLICATION INSTRUCTIONS

1. Insert sausage into applicator gun, cut nozzle to appropriate bead size.
2. Apply between +5 °C and +35 °C.
3. Gun steadily into joint, avoiding air entrapment.
4. Tool immediately with a spatula or trowel, ensuring full contact with substrates.
5. For best results, mask joint edges before application and remove tape immediately after tooling.

PAINTING

- Compatible with most water-based paints and membranes once skin forms.
- Compatibility testing is recommended for industrial-grade or solvent-based coatings.
- Some paints may remain tacky or craze if applied before full cure.

CHEMICAL RESISTANCE

- Resistant to intermittent contact with salt water, oils, fuels, detergents, defrosting solutions, weak acids, and bases.
- Not resistant to prolonged chemical exposure or harsh solvents.
- Pre-test for applications involving chemical contact.

CURING

- **Skinning**: ~40–60 minutes at 23°C / 50% RH
- **Cure rate**: 2–3 mm per 24 hours at 23°C / 50% RH
- Cure times are extended in low temperature or low humidity conditions

LIMITATIONS

- Not suitable for water-retaining structures unless used with a waterproofing system
- Do not apply to frozen or damp surfaces, or if temperatures may fall below 0°C during curing
- Not recommended for bituminous substrates or surfaces that bleed oils or solvents
- Not suitable for glazing, marble, or porous stone without pre-testing
- Avoid joint configurations where feather-edging reduces sealant thickness to zero
- Not suitable for roofing lap joints (use silicone alternatives)

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