Advanced MS Polymer

ALSEAL®

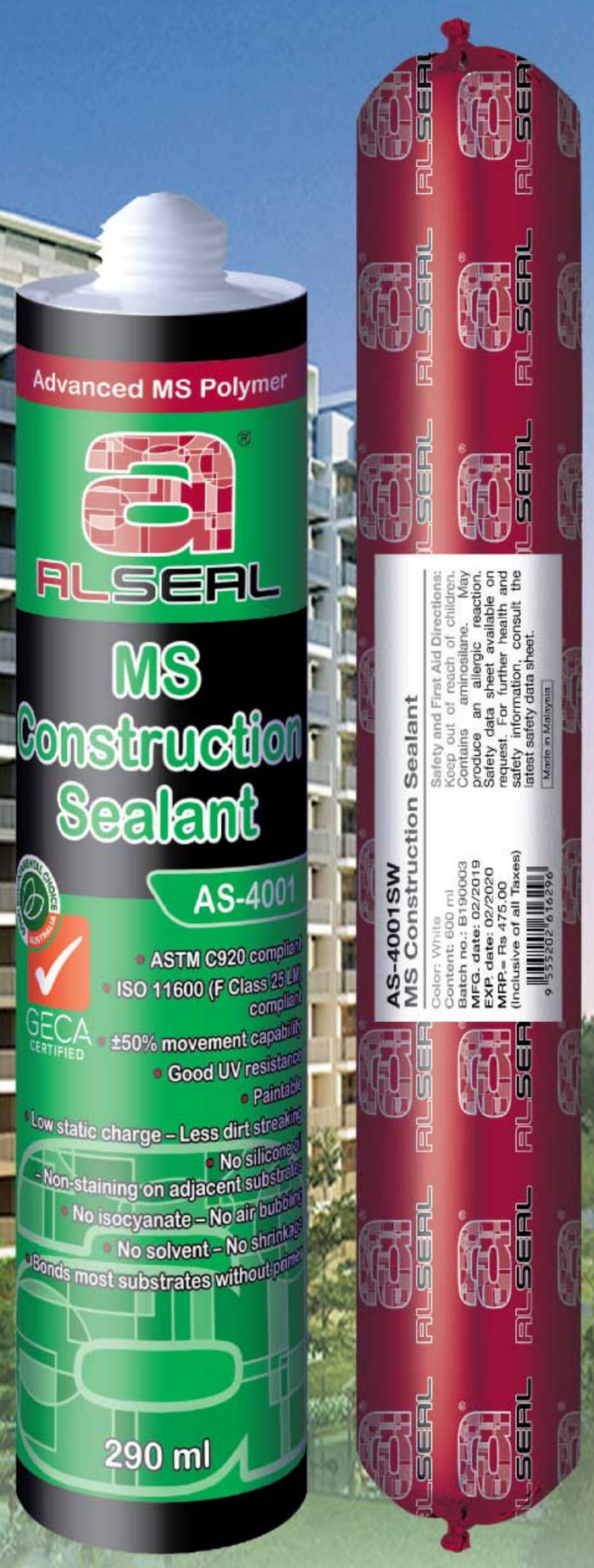
AS-4001 / AS-4001S

MS Construction Sealant

Scan and learn

GOOD ENVIRONMENTAL CHOICE AUSTRALIA

GECA CERTIFIED



Features:

- Good Environmental Choice Australia (GECA) certified
- ASTM C920 compliant
- ISO 11600 (F Class 25 LM) compliant
- ±50% movement capability
- Good UV resistance
- Paintable
- Low static charge – Less dirt streaking
- No silicone oil – Non-staining on adjacent substrates
- No isocyanate – No blistering
- No solvent – No shrinkage
- Bonds most substrates without primer

Product Specifications:

Curing system	: Moisture curing
Density	: 1.53 – 1.58 g/mL
Tack-free time	: 20 – 60 minutes
Tensile at break (ASTM D412)	: >1.0 N/mm²
Elongation at break (ASTM D412)	: >500 %
Shore A hardness (ASTM C661)	: 25 – 35
Joint movement capability (ASTM C719)	: ±50 %
Elastic recovery (ISO 7389)	: >70 %
Cure depth (24 hours) at 23° C, 50% humidity	: Approx. 3 mm
Slump (ASTM D2202)	: <1 mm
VOC content (USEPA Test Method 24)	: <10g/L
Application temperature	: 5 °C to 40 °C
Service temperature	: -20 °C to 90 °C
Shelf life	: 9 months (cartridge) 12 months (sausage)

Description: A single-component, high-performance hybrid sealant based on advanced MS Polymer technology. It is formulated to meet the stringent requirements of various joint sealing applications. Unlike Polyurethane sealants, its weathering resistance property is much better, therefore it has longer service lifetime. Also, its solvent-less and isocyanate-free formulation ensures that the cured sealant will not shrink or have bubbling issues. It is also free of silicone oil, minimising building aesthetic issues caused by oil-staining and dirt-streaking problems often associated with silicone sealants. The adhesion of the sealant on a wide variety of substrates is great, and it is paintable with most types of common industrial paints.

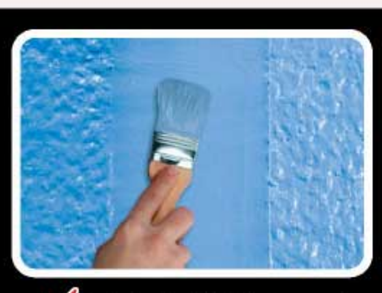
Application: Recommended for sealing concrete joints like precast wall panel joints, expansion joints, control joints, connection joints, etc. It is also ideal for window frame perimeter sealing especially when the sealant needs to be painted. Other recommended applications include sealing of GRC panel systems, anodized aluminium, masonry, porcelain, coated metal, finished wood, epoxy and polyester panels, UPVC, polystyrene, and stainless steel.

Limitation: Not recommended for constant water immersion, outdoor glass sealing, sealing substrates such as PE, PP, Teflon, Neoprene, and bitumen. Not paintable with alkyd, chlorinated, or oil-based paint.

Available colors: White, grey & black
Content: 290 ml (cartridge), 600 ml (sausage)
Carton quantity: 20 cartridges / carton, 20 sausages / carton

Features:

Paintable



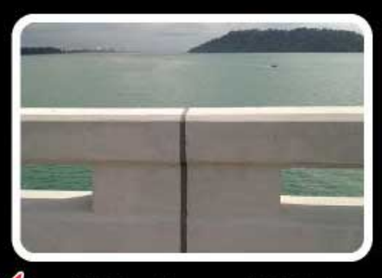
✔ Paintable (MS Polymer)

Non-paintable (Silicone Sealant)

Paintable

- Paintable with various types of paints

Flexible seal & Good UV resistance



✔ Good UV resistance (MS Polymer)

Poor UV resistance – Sealant cracking (PU Sealant)

Flexible seal & Good UV resistance

- ±50% movement capability, suitable for working joints that experience significant movements.
- Durable, remain elastomeric for long time.

Non-staining / Less dirt streaking

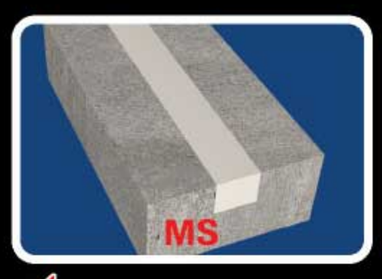
✔ Less dirt streaking (MS Polymer)

Streaking (Silicone Sealant)

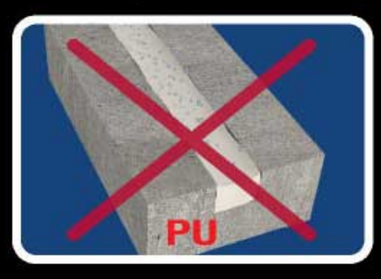
Non-staining / Less dirt streaking

- No silicone oil, hence no oil migration and staining issues on adjacent substrates.
- Minimize dirt-streaking issues introduced by silicone sealants.
- Reduce building cleaning and maintenance costs.

No shrinkage



✔ No shrinkage (MS Polymer)

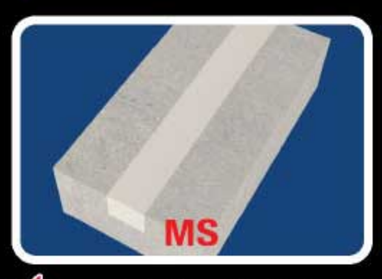


Shrinkage (PU Sealant)

No shrinkage

- PU sealant shrinks while curing.
- MS sealant will not shrink due to its solvent-free property.

No air bubbling



✔ No air bubbling (MS Polymer)

Bubbling (PU Sealant)

No air bubbling

- The bubbles in PU sealants are due to the formation of CO_2.
- The formation of CO_2 is the result of moisture reaction with isocyanate.

Good workability

✔ Easier to tool (MS Polymer)

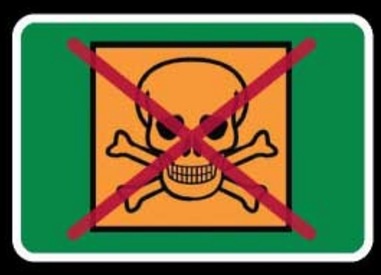
Difficult to tool (PU Sealant)

Good workability

- Alseal MS sealant can be tooled easily.
- Only single pass is required, without water or soap water.
- Other hybrid/PU sealants can be challenging to tool.

Green sealant

✔ Green sealant (MS Polymer)

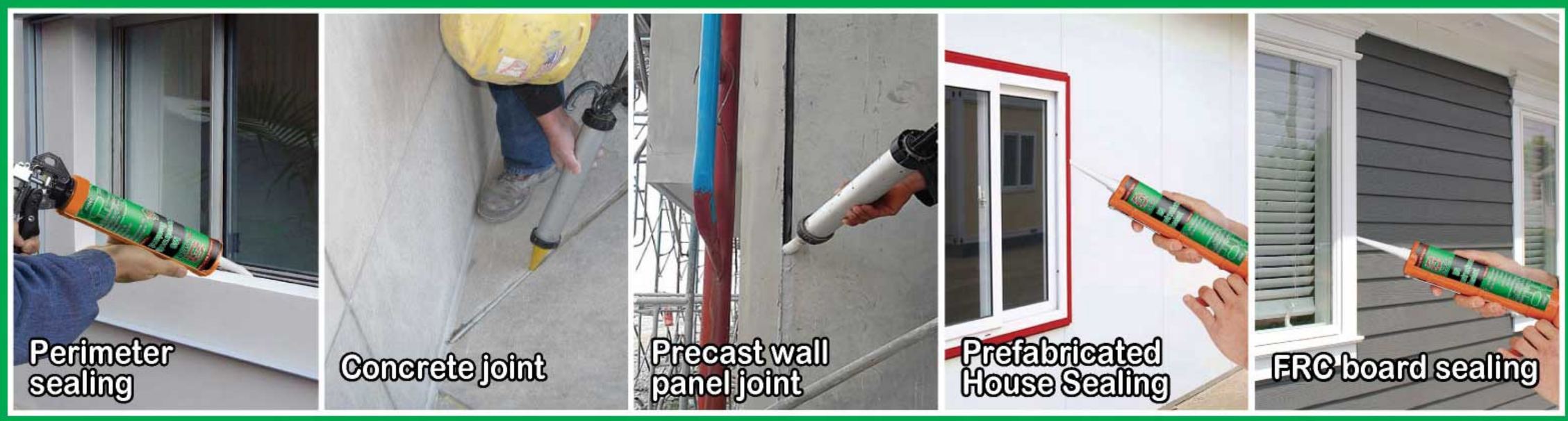


Hazardous material (PU Sealant)

Green sealant

- Compliant with Good Environmental Choice Australia (GECA) certified
- No hazardous materials such as isocyanate, solvent, heavy metals etc.

Applications:



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