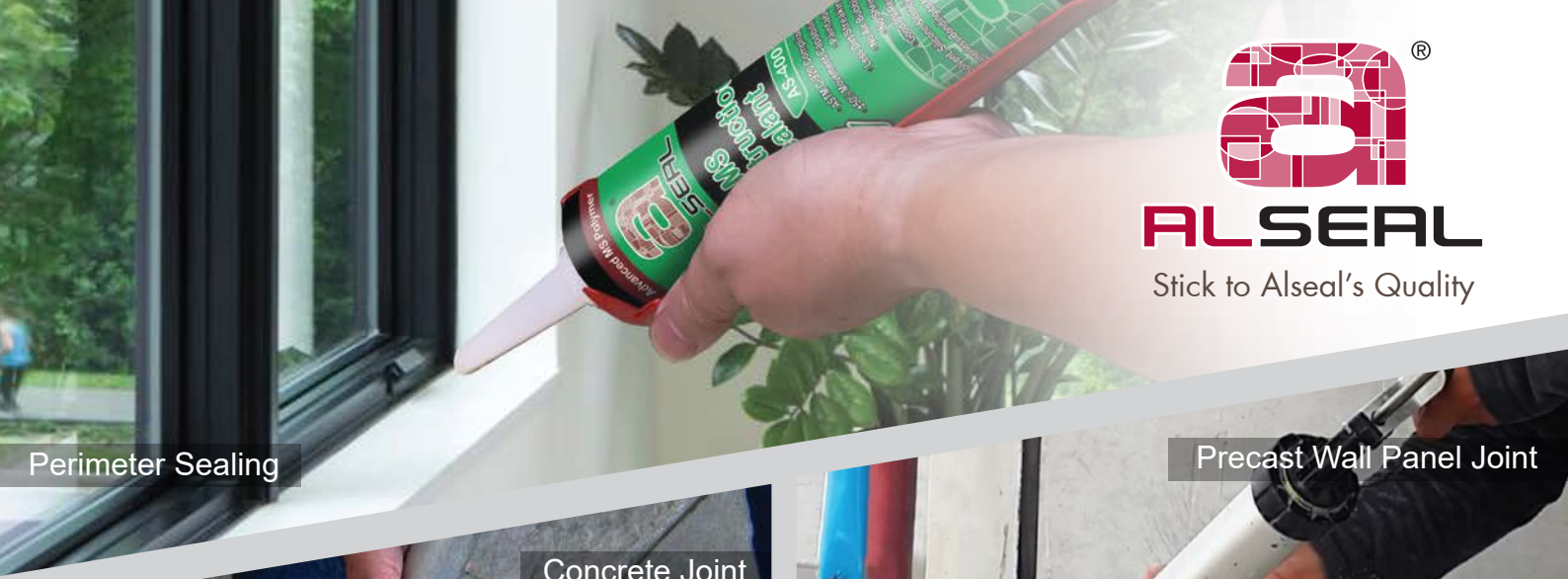
ALSEAL
Stick to Alseal's Quality







GECA CERTIFIED

LEED COMPLIANT PRODUCT

ASTM C920 CLASS 50



AS-4001 / AS-4001S
MS Construction Sealant

ALSEAL MS Construction Sealant is 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.

Applications: 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.

Approvals / Specifications:
- ASTM C920, Type S, Grade NS, Class 50, Use NT & M
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
- ISO11600 F Class 25 LM
- Good Environmental Choice Australia (GECA) certified
- Low VOC - USEPA Method 24 under SCAQMD Rule 1168
- FDA 21 CFR Part 175.300, Food Contact Safe

Available colours: White, Grey & Black

Product Code	Content	Carton Quantity
AS-4001	290 ml / Cartridge	20 / Carton
AS-4001S	600 ml / Sausage	20 / Carton

Features:
- ✓ ±50 % movement capability
- ✓ Better weathering resistance than PU sealants
- ✓ 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

☑ **Paintable** (MS Polymer)



☒ **Non-paintable** (Silicone Sealant)



Paintable

- Paintable with various types of paint

☑ **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.

☑ **Less dirt streaking** (MS Polymer)



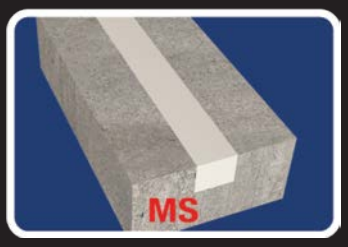
☒ **Streaking** (Silicone Sealant)



Non-staining / Less dirt streaking

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

☑ **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** (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.

☑ **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.

☑ **Low VOC** (MS Polymer)



☒ **Hazardous material** (PU Sealant)



Low VOC

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