



Aluminium Composite Panel Façade



Solid Panel Metal Cladding



Natural Stone Façade



AS-4002 / AS-4002S Premier Construction Sealant

A one-component, elastomeric joint sealant formulated with acrylic modified hybrid sealant, the premium grade of MS Polymer. The weatherability and UV resistance of the sealant is excellent, with much longer expected service life than other organic sealants in the market. The finishing is matt, less tacky, and with low electrostatic charge, thereby reducing fluid streaking issues on façade cladding caused by air-borne dust particles. Besides, the formula is also free of silicone oil, minimizing oil-staining or other building aesthetic issues caused by migration of silicone oil. It has passed ASTM C1248, the standard test method for staining of porous substrate by joint sealants. Unlike polyurethane sealants, this sealant is free of isocyanate and solvent and thus no issues like blistering or shrinkage will occur. It also can adhere well to numerous substrates without primer, fast-curing, paintable with common water-based coatings, and it is a green product that complies with SCAQMD rule 1168 Low VOC limit.

Applications: Specially formulated to seal metal (e.g. ACP) and stone (e.g. marble) façade cladding due to its excellent weatherability and non-staining/less dirt-streaking characteristics. It is also recommended for sealing concrete joints like precast wall panel joints construction joints, control joints, expansion joints, and window frame perimeter sealing (PVC / Aluminum to concrete wall), both painted and non-painted surfaces. Other recommended applications include sealing of masonry, brickworks, anodized aluminum, stainless steel, porcelain, finished wood, coated metal, epoxy and polyester panels, uPVC, polystyrene, and many difficult substrates.

Approvals / Specifications:

- ▶ ASTM C920, Type S, Grade NS, Class 50, Use NT & A
- ▶ ASTM C1248 : 2018 Standard Test Method For Staining Of Porous Substrate By Joint Sealants
- ▶ Low VOC - USEPA Method 24 under SCAQMD Rule 1168

Product Code	Content	Carton Quantity
AS-4002	290 ml / Cartridge	20 / Carton
AS-4002S	600 ml / Sausage	20 / Carton



Available colours:

Matte black, matte grey & matte white

Features:

- ✓ Excellent weatherability – 10-year warranty
- ✓ ±50% Movement capability
- ✓ No silicone oil – Non-staining on adjacent substrates
- ✓ Paintable
- ✓ Low static charge – Less dirt streaking
- ✓ No isocyanate – No blistering
- ✓ No solvent – No shrinkage
- ✓ Bonds most substrates without primer
- ✓ Matte finish

✓ **Less fluid-streaking on facade cladding (MS Polymer)**



✗ **Fluid-streaking on facade cladding (Silicone Sealant)**



Less fluid-streaking

- ▶ Minimise Fluid-streaking issue introduced by silicone sealants.
- ▶ Reduce building cleaning and maintenance costs.

✓ **Non-staining on natural stone facade (MS Polymer)**



✗ **Staining on natural stone facade (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.

✓ **Less dirt-streaking (MS Polymer)**



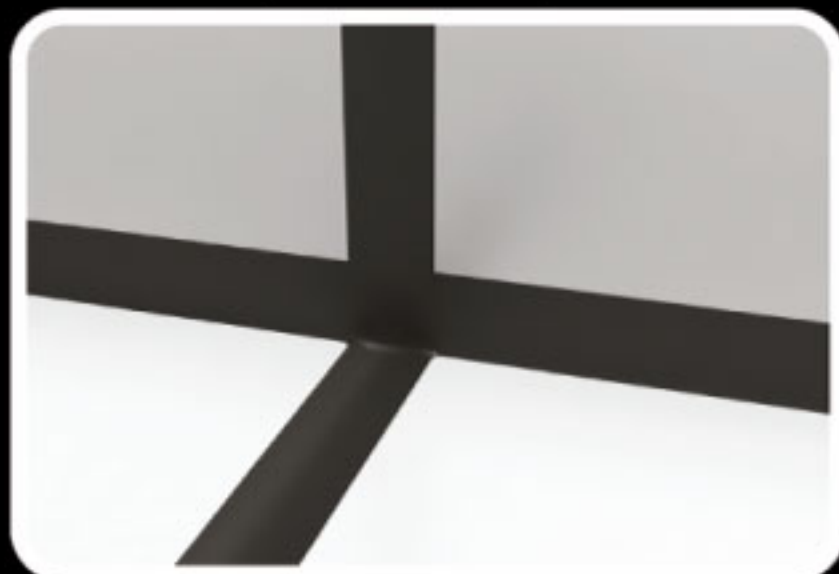
✗ **Streaking (Silicone Sealant)**



Paintable

- ▶ Paintable with various types of paint.

✓ **Good UV resistance (MS Polymer)**



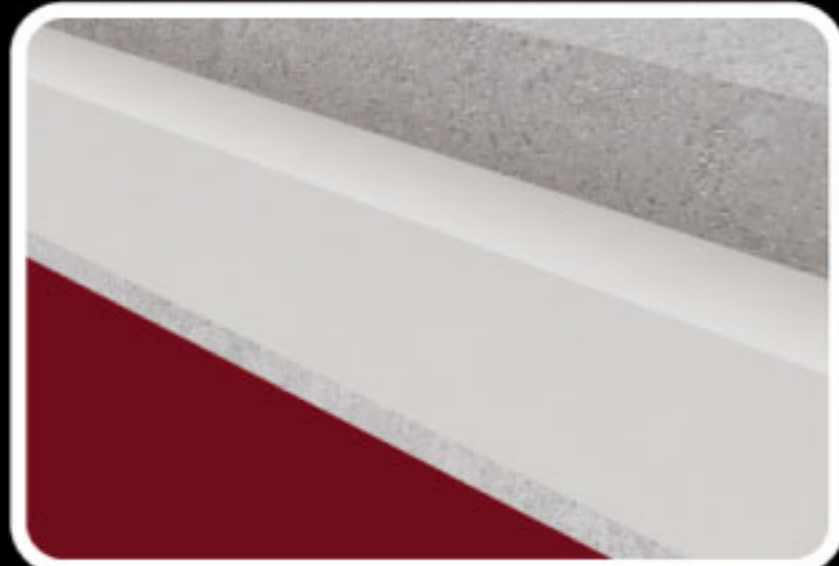
✗ **Poor UV resistance - Sealant cracking (PU Sealant)**



Flexible seal & Good UV resistance

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

✓ **No blistering (No isocyanate)**



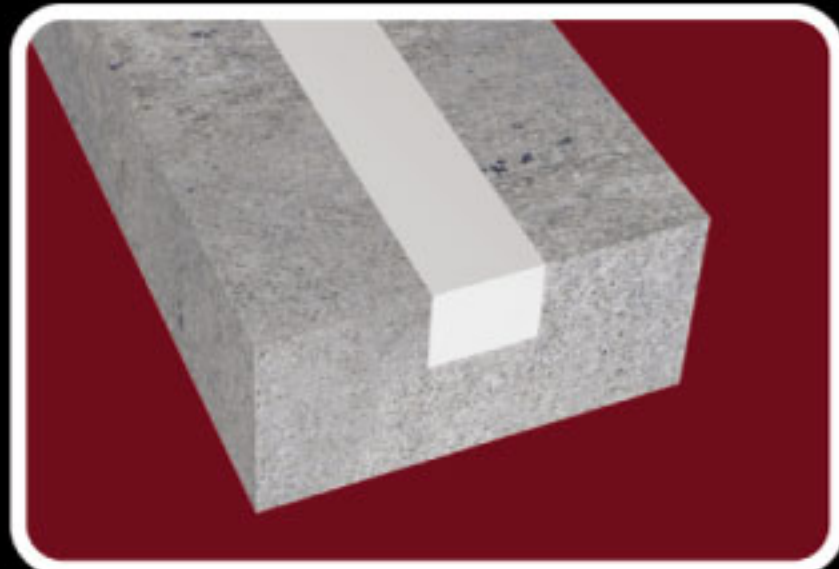
✗ **Blistering issue (PU Sealant)**



No blistering

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

✓ **No shrinkage (MS Polymer)**



✗ **Shrinkage after cure (PU Sealant)**



No Shrinkage

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

✓ **Green sealant (MS Polymer)**



✗ **Hazardous material (PU Sealant)**



Green sealant

- ▶ Compliant with SCAQMD rule 1168.
- ▶ No hazardous materials such as isocyanate, solvent, heavy metals, etc.