

## Advanced MS Polymer



# AS-4001 / AS-4001S MS Construction Sealant

### Features:

- 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                | : 30 - 60 minutes                               |
| Tensile strength              | : > 1.0 N/mm <sup>2</sup>                       |
| Elongation at break           | : > 600 %                                       |
| Shore A hardness              | : 25 - 35                                       |
| Lap shear strength            | : > 0.5 N/mm <sup>2</sup> (Al to Al)            |
| Movement capability           | : ±50 %   |
| VOC content (USEPA Method 24) | : < 10 g/L                                      |
| Application temperature       | : 5 °C to 40 °C                                 |
| Service temperature           | : -30 °C to 100 °C                              |
| Shelf life                    | : 9 months (cartridge)<br>: 12 months (sausage) |



(Scan and learn more)



**Description:** A single-component, moisture-cured elastomeric hybrid sealant based on advanced MS Polymer technology. It offers superior weathering, UV and temperature resistance characteristics. It is a green sealant formulated to meet the low VOC regulation. It is solvent and isocyanate free so does not cause any shrinkage or bubbling. It is also free of silicone oil, hence minimizing building aesthetic issues caused by dirt-streaking as seen with silicone sealants. Its adhesion on various substrates is excellent even without primer, yet it is paintable with most types of industrial paints.

**Applications:** Recommended for sealing concrete joints like wall panel joints, expansion joints, control joints etc. It is also ideal for window frame perimeter sealing especially when the sealant needs to be painted as well as facade cladding designed with metal panels or natural stones. Other recommended applications include sealing of anodized aluminum, 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 paints.

**Available colors:** White, grey & black

**Content:** 290 ml (cartridge), 600 ml (sausage)

**Carton quantity:** 20 cartridges / carton, 20 sausages / carton



## Features:

### Paintable

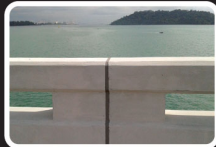


✓ Paintable (MS Polymer)



Non-paintable (Silicone Sealant)

### Flexible seal & Good UV resistance



✓ Good UV resistance (MS Polymer)



Poor UV resistance - Sealant cracking (PU Sealant)

### Non-staining / Less dirt streaking



✓ Less dirt streaking (MS Polymer)

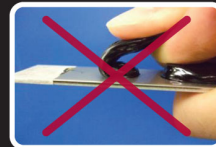


Streaking (Silicone Sealant)

### Bonds most substrates without primer

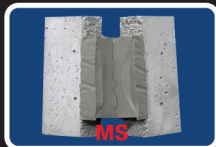


Cohesive failure (MS Polymer)

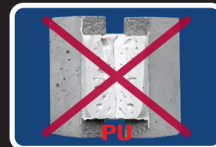


Adhesive failure (Silicone Sealant)

### No air bubbling



✓ No air bubbling (MS Polymer)



Bubbling (PU Sealant)

### Green sealant



✓ Green sealant (MS Polymer)



Hazardous material (PU Sealant)

### Paintable

- Paintable with various types of paints

### 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

- 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.

### Bonds most substrates without primer

- Good adhesion to most substrates even without using primer.
- Works on difficult-to-bond substrates like aluminium, stainless steel, polycarbonate, ABS, PVC, etc.

### No air bubbling

- The bubbles/ foams/ blisters in PU sealants are due to the formation of CO<sub>2</sub>.
- The formation of CO<sub>2</sub> is the result of the reaction of the isocyanate with moisture.

### Green sealant

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

## Applications:



Manufactured under ISO9001 & ISO14001 Management Systems

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