



**Adhesive, Sealant & Waterproofing**

# VT-620 / VT-620S LM MS Sealant Advanced MS Polymer



- ASTM C920 (Class 50) compliant
- ISO 11600 (F Class 25 LM) compliant
- Good UV resistance
- Low static charge – Less dirt streaking
- Paintable
- Silicone-free – Non-staining on adjacent substrates
- Isocyanate-free – No air bubbling
- Solvent-free – No shrinkage
- Primerless bonding to most surfaces

**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 oil-staining & 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 & teak

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

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

## Product Specification:

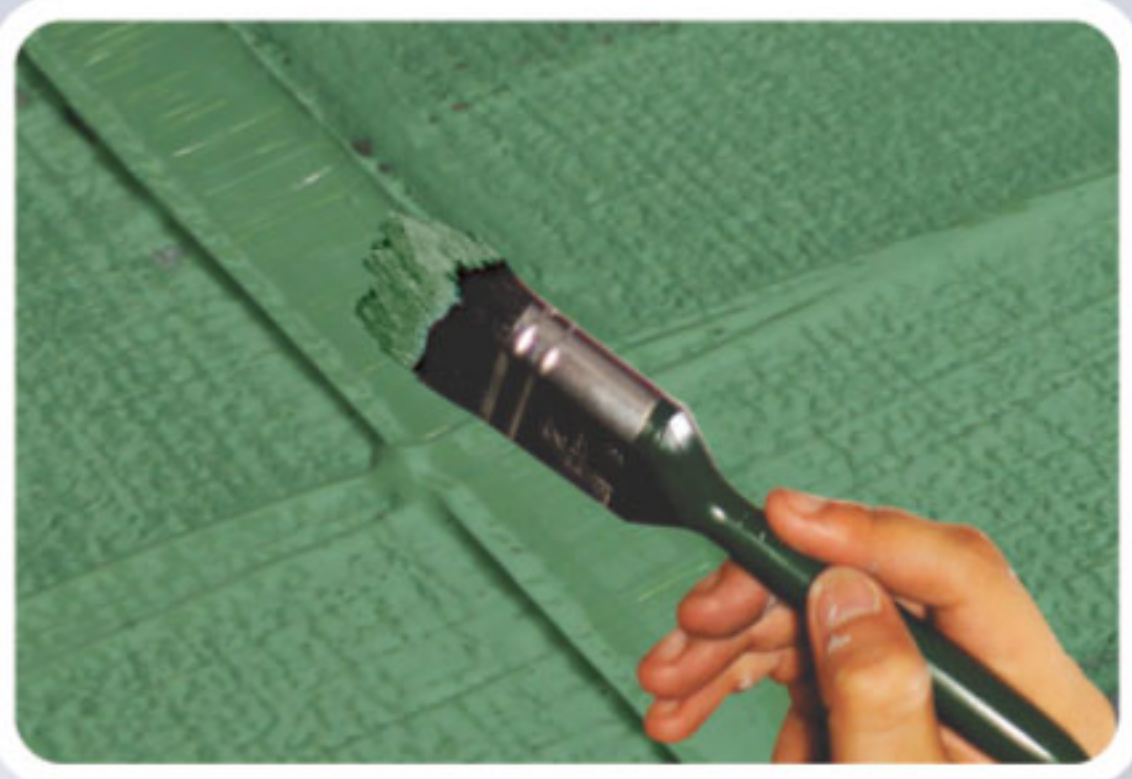
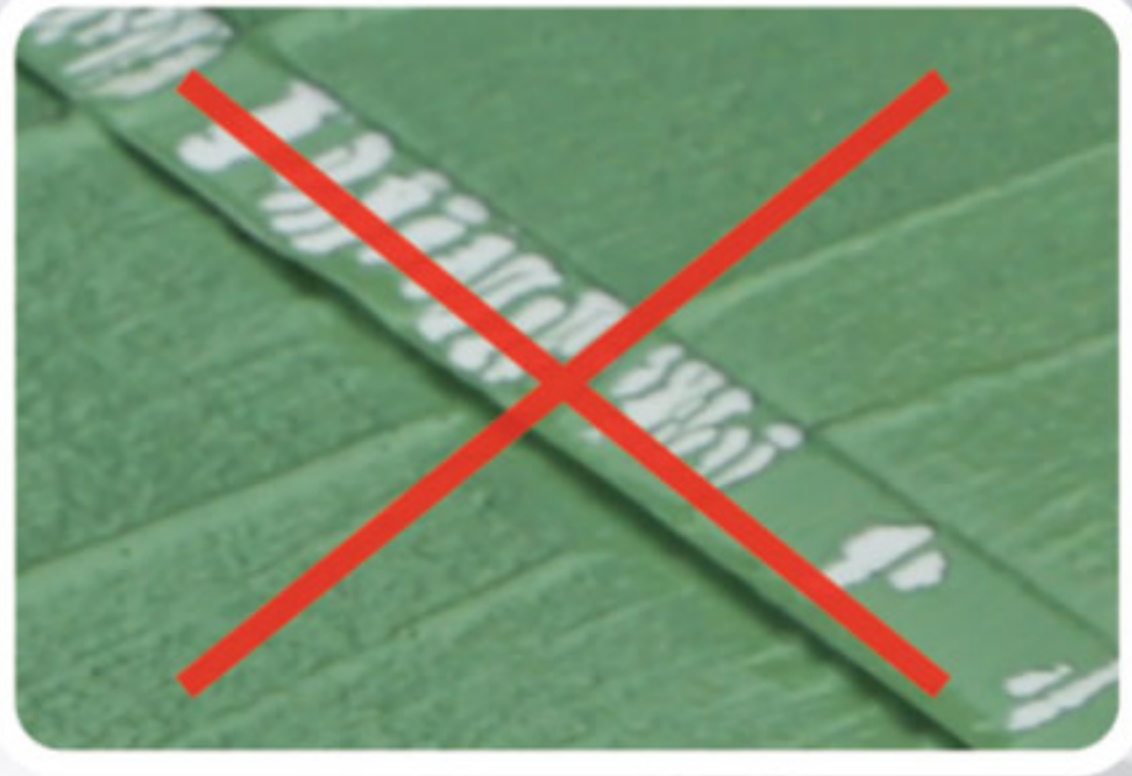
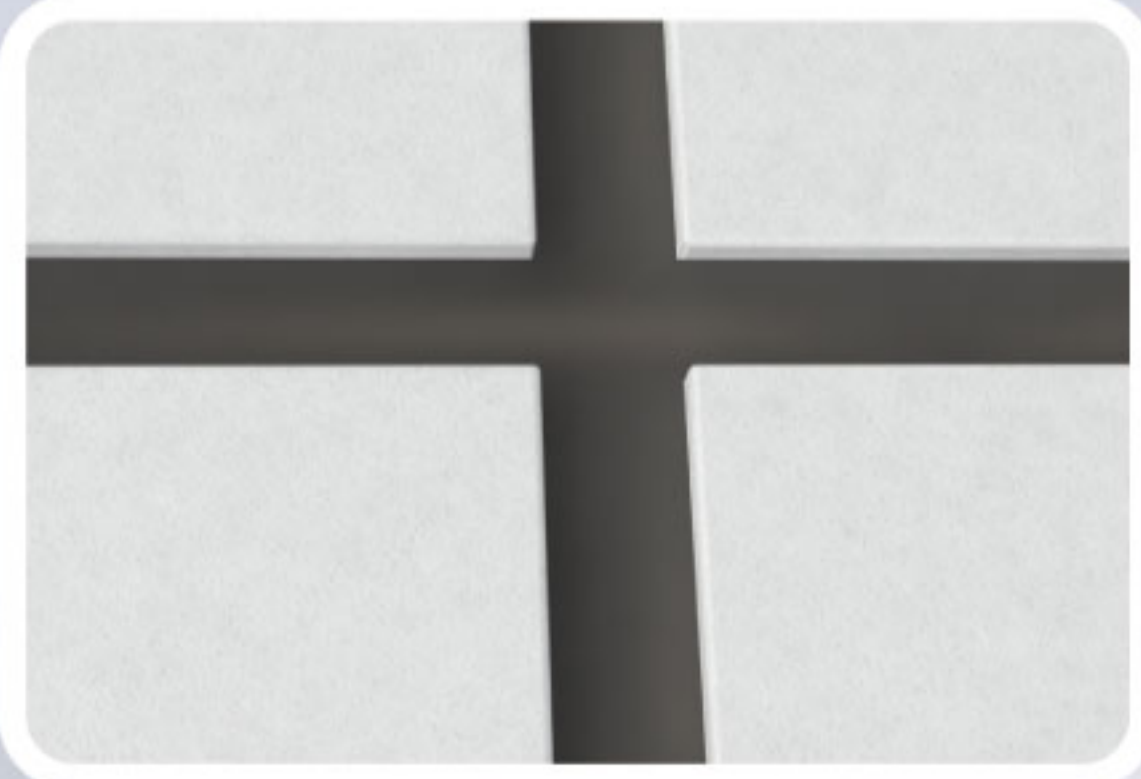

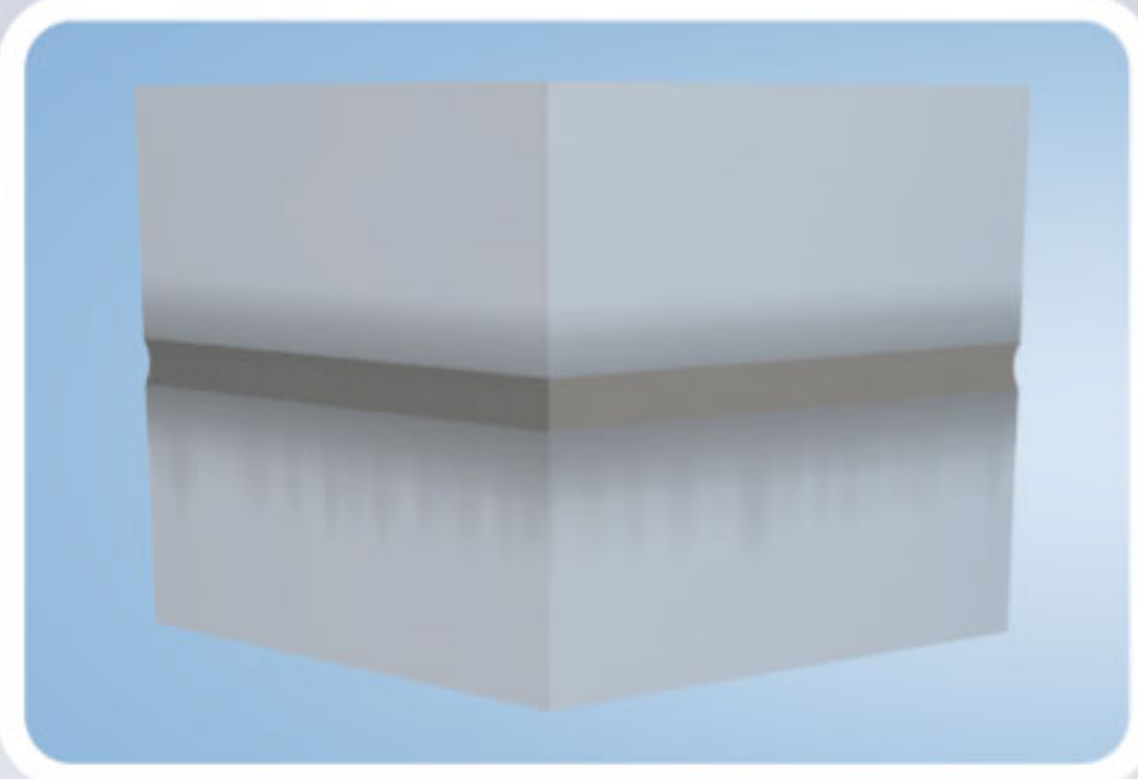
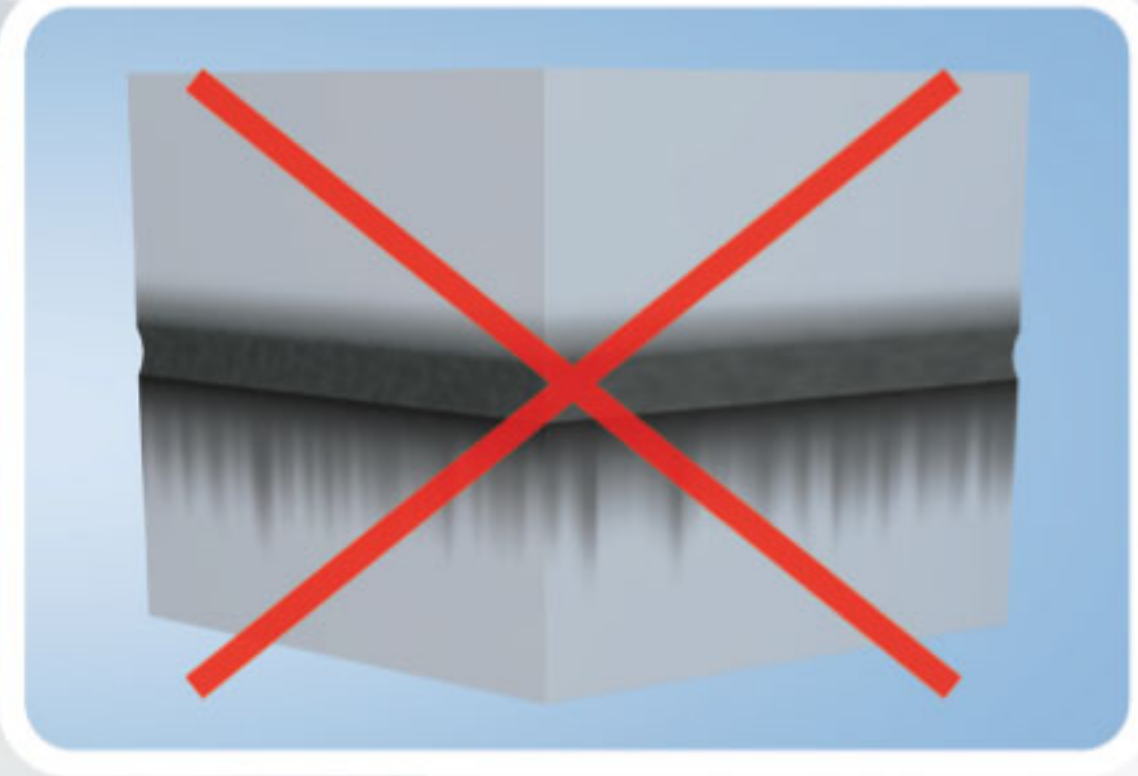
Curing system	: Moisture curing
Density	: 1.53 - 1.58 g/mL
Tack-free time	: 30 - 60 minutes
Tensile strength (ASTM D412)	: >1.0 N/mm <sup>2</sup>
Elongation at break (ASTM D412)	: >600 %
Shore A hardness (ASTM C661)	: 25 - 35
Lap shear strength (ASTM D1002)	: >0.5 N/mm <sup>2</sup> (Al to Al)
Movement capability (ASTM C719)	: ±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) : 12 months (sausage)

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# Features:

Paintable	Flexible seal & Good UV resistance	Non-staining / Less dirt streaking
 <p>✓ <b>Paintable (MS Polymer)</b></p>  <p><b>Non-paintable (Silicone Sealant)</b></p> <ul style="list-style-type: none"> <li>• No silicone oil.</li> <li>• Paintable with various types of paints.</li> </ul>	 <p>✓ <b>Good UV resistance (MS Polymer)</b></p>  <p><b>Poor UV resistance - Sealant cracking (PU Sealant)</b></p> <ul style="list-style-type: none"> <li>• ±50 % movement capability, suitable for working joints that experience significant movements.</li> <li>• Durable, remain elastomeric for long time.</li> </ul>	 <p>✓ <b>Less dirt streaking (MS Polymer)</b></p>  <p><b>Streaking (Silicone Sealant)</b></p> <ul style="list-style-type: none"> <li>• No silicone oil, hence no oil migration and staining issues on adjacent substrates.</li> <li>• Minimize dirt-streaking issues introduced by silicone sealants.</li> <li>• Reduce building cleaning and maintenance costs.</li> </ul>

Primerless bonding to most substrates	No air bubbling	Green sealant
 <p><b>Cohesive failure (MS Polymer)</b></p>  <p><b>Adhesive failure (Silicone Sealant)</b></p> <ul style="list-style-type: none"> <li>• Good adhesion to most substrates even without using primer.</li> <li>• Works on difficult-to-bond substrates like aluminum, stainless steel, polycarbonate, ABS, PVC, etc.</li> </ul>	 <p>✓ <b>No air bubbling (MS Polymer)</b></p>  <p><b>Bubbling (PU Sealant)</b></p> <ul style="list-style-type: none"> <li>• No air bubbling, The bubbles/ foams/ blisters in PU sealants are due to the formation of CO<sub>2</sub>.</li> <li>• The formation of CO<sub>2</sub> is the result of the reaction of the isocyanate with moisture.</li> </ul>	 <p>✓ <b>Green sealant (MS Polymer)</b></p>  <p><b>Hazardous materials (PU Sealant)</b></p> <ul style="list-style-type: none"> <li>• Compliant with SCAQMD rule 1168.</li> <li>• No hazardous materials such as isocyanate, solvent, heavy metals, etc.</li> </ul>

# Applications:

Perimeter sealing	Concrete joint	Aluminium panel bonding	Natural stone
			

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*Adhesive, Sealant & Waterproofing*

# VT-625/ VT-625S Ultimate Construction Sealant

- Excellent UV resistance – 10-year warranty • ASTM C920 (Class 50) compliant
- Low static charge – Less dirt streaking • Paintable
- Silicone-free – Non-staining on adjacent substrates
- Isocyanate-free – No air bubbling • Solvent-free – No shrinkage
- Primerless bonding to most surfaces • Matte finish

**Description:** A single-component, moisture-curing, acrylic modified hybrid sealant that is based on advanced MS Polymer technology. It has excellent UV and weathering resistance properties and features matt finish. The static charge of this sealant is low, hence attracts less dust particles and reduces dirt streaking issues on façade cladding. It is also free of silicone oil, minimizing building aesthetic issues caused by oil staining. The solvent- and isocyanate-free formulation eliminates shrinkage and air bubbling issues of sealant. The adhesion on various substrates is excellent even without primer, yet it is paintable with common industrial paints. It is a green sealant formulated to meet the low VOC regulation.

**Applications:** Recommended for sealing of facade cladding designed with metal panels or natural stones. Also suitable for concrete joints like wall panel joints, expansion joints, control joints, etc. It is also ideal for window frame perimeter sealing, both painted and non-painted surfaces. 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: Matt black, matt grey & matt white

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

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

## Product Specification:

Curing system	: Moisture curing
Density	: 1.51 - 1.56 g/mL
Tack-free time	: 30 – 60 minutes
Tensile strength (ASTM D412)	: >0.7 N/mm <sup>2</sup>
Elongation at break (ASTM D412)	: >600 %
Movement capability (ASTM C719)	: ±50 %
Shore A hardness (ASTM C661)	: 20 – 33
VOC content (USEPA Method 24)	: <50 g/L
Application temperature	: 5 °C – 40 °C
Service temperature	: -30 °C – 100 °C
Shelf life	: 9 months (cartridge) : 12 months (sausage)



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# Applications:

## Metal Panel Façade Cladding



## Natural Stone Façade



## Concrete Joint



## Perimeter Sealing



# Features:

## Known issue with other silicone / PU sealants

Sealant cracks over time



Staining on natural stone façade



Dirt streaking on façade cladding



Shrinkage after curing



## Problems solved with VT-625

No cracking

Excellent UV Resistance



Non-staining on natural stone façade

Free of silicone oil



Less dirt streaking on façade cladding

Low Static Charge



No shrinkage

Free of solvent



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