

FEATURES

VT-625 Ultimate Construction Sealant is a general-purpose sealant formulated based on advanced MS Polymer technology. It has excellent UV and weathering properties and it features matt finish. The static charge of this sealant is low, hence attracts less dust particles and reduces dirt streaking issues on facade cladding. It is also free of silicone oil, minimizing building aesthetic issues caused by oil staining and dirt streaking problems often associated with silicone sealants. It has been tested and meets the requirements of ASTM C1248, the standard test method for staining of porous substrate by joint sealants.

- Excellent UV resistant
- Free from silicone oil – non-staining, dust-free
- High flexibility, accommodating joint movement of $\pm 50\%$ (ASTM C920 Class 50)
- Paintable
- No shrinkage
- Isocyanate-free, no air bubbles in the sealant
- Low VOC contribute to the LEED v4.1 credit.

PRODUCT INFORMATION

Product type	One-component MS Polymer
Physical state	Before cure –Non-sagging paste After cure –Elastic Rubber
Colours	White (Matt)
Odor	No strong odor
Application areas	• Joints of aluminum composite panels (ACP), natural stone in façade applications • Joints of wall panels, such as Precast and GRC • Joints between door/window frames and aluminum or cement surfaces • Concrete floor joints, and joints between walls and floors (e.g., post-tension floors) • Joints on concrete or aluminum surfaces requiring painting • Wall cracks • Other surfaces such as anodized aluminum, coated metals, wood, stainless steel, epoxy, polyester, UPVC, and polystyrene.
Packaging	600 mL/sausage 20 sausages/carton

TECHNICAL INFORMATION

Curing system	Moisture curing
Application temperature	5°C - 40°C
Service temperature	-30°C - 90°C
Specific gravity	1.53 g/mL
Tack-free/Skin-form time	20-40 mins. (at 25 °C & 50% R.H.)
Cure depth	3 mm (24 hours) at 23 °C, 50% humidity
Maximum tensile strength	1 N/mm ² ASTM D412
Elongation at break	530 % ASTM D412
Movement Capability	± 50 % ASTM C719
Slump	No staining ASTM C1248
Elastic Recovery	27 ASTM C661
Shore A Hardness	46.61 g/L USEPA Method 24

REFERENCE STANDARD

- ASTM C920, Type S, Grade NS, Class 50, Use NT, A & M
- ASTM C1248 : 2018 Standard Test Method For Staining Of Porous Substrate By Joint Sealants
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
 - Low VOC Content - USEPA Method 24 under SCAQMD Rule 1168
 - Low VOC Emission - CDPH Standard Method v1.2- 2017
- RoHS I & RoHS II

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Surface preparation Application Direction

Substrate surface must be dry and clean; free of dirt, grease, oil, or standing water.

Sausages

1. Cut the tip of the sausage carefully and slip it into the caulking gun.
2. Cut the nozzle into an appropriate diameter at an angle of approximately 45° to 60°.
3. For a neat finishing, use masking tapes and remove it within the working time.
4. For sealant designs with depths of over 10 mm, use approved backing materials.
5. Place the nozzle into the caulking gun and screw tight. Extrude the sealant with a single bead.
6. Tool the sealant bead with a clean and dry tool before the sealant skins for a smooth finishing.

Joint Design

- Joint width: minimum = 6 mm, maximum = 35 mm *
- Joint depth: minimum = 6 mm, maximum = 12 mm
- Generally, the joint width-to-depth ratio should follow the table below.

Width	Width (W) : Depth (D)
≥12 mm	2:1
<12 mm	1:1

* Sealing joints with larger joint width is possible but sealant may sag in vertical applications.

Coverage

Width, W	Depth, D	Coverage (600 ml)*
6 mm	6 mm	15.15 meter
10 mm	10 mm	5.45 meter
20 mm	10 mm	2.73 meter
25 mm	12 mm	1.82 meter

* The coverage figures shown above are approximate linear meter run based on 10% wastage assumption. Actual coverage may vary.

- Calculation formula:

$$\text{Coverage (cm)} = \text{volume of cartridge (or sausage) in ml} / [(\text{joint width(cm)} \times \text{joint depth(cm)}) \times 1.1]$$

Clean Up

Wet sealants can be cleaned up with acetone or mineral spirits.

Cured sealants can only be removed mechanically

Limitations

Not recommended for the following applications:

- Below waterline or permanent water immersion
- Overcoated with
 - Alkyd resin paint - cure inhibition to the paint
 - Acrylic solvent or old concrete primer: May become tacky, attract dust, and cause staining.

HANDLING AND STORAGE

Storage condition

Store the product in a dry, well-ventilated area. Keep the container tightly sealed at all times. It is not recommended to place the product outdoors or expose it to direct sunlight. If the product must be stored temporarily for transportation or relocation, it should be kept separately from other materials at an appropriate distance. Additionally, flammable materials such as oil-based paints and thinners should be stored separately from other types of substances.

Shelf life

1 year at 30-35 °C (If the product is not used completely, please ensure the tube is sealed tightly.)



SAFETY PRECAUTIONS

Precautionary notices are displayed on the container. Use product under well-ventilated area. Avoiding skin contact or inhale product. In case of contact with the eye, rinse with plenty of water immediately and seek medical advice. Remove splashes from the skin by using soap or water. For others information in terms of health and safety hazards for use of this product, please observe the Safety Data Sheet.

DISCLAIMER

The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.

We reserve the right to alter the given without prior notice.

NOTE

The data are average values for reference only. However, the actual value depends on environmental conditions.