

# **VT-211 Weatherproofing Sealant**

# **FEATURES**

VT-211 Weatherproofing Sealant is a 100% silicone sealant of ultra-premium grade, neutral cure, onecomponent, flexible, low-odor, and highly resistant to weather conditions, UV rays, joint movements, and extreme temperature variations. It is also resistant to solvents and cleaning agents. Suitable for bonding or sealing joints that require long-lasting weather resistance, such as aluminum composite panel (ACP) joints, façade works, or general construction materials such as glass, aluminum, galvanized steel, and zinc-coated steel. Can be used for both interior and exterior applications. VT-211 is able to comply with the stringent requirements of ASTM C920 as well as contributing to the Leadership in Energy and Environmental Design (LEED) v4.1 credit.

- · 100% neutral cure silicone sealant
- High flexibility, accommodating joint movement of ±50% (ASTM C920 Class 50)
- Excellent resistance to weather conditions and UV
- Highly flexible with superior adhesion
- Matte finish
- · Low VOC, safe for users, and environmentally friendly
- Free from APEO-, formaldehyde- และ phthalate-

# PRODUCT INFORMATION

Product type Silicone polymer

Before cure -Non-sagging paste Physical state

After cure -Elastic Rubber

Colours Matte white

Odor No strong odor

Application areas • Joints of aluminum composite panels (ACP) in façade applications

· Joints between door/window frames and aluminum

· Joints of general construction materials such as glass, metal, aluminum, cold room panels, galvanized steel, zinc-coated steel, gaskets, screw and bolt heads, sanitary ware, and ceramics

**Packaging** 300 mL/cartridge (24 cartridges/carton)

Moisture curing

# **TECHNICAL INFORMATION**

Curing system

Application temperature	-20°C - 50°	C	
Service temperature	Up to 150°C		
Specific gravity	1.33	g/mL	
Tack-free/Skin-form time	10-30	mins. (at 25 °C & 50% R.H.)	
Maximum tensile strength	1.2	N/mm <sup>2</sup>	ASTM D412
Elongation at break	360	%	ASTM D412
Movement Capability	±50	%	ASTM C719
Slump	<1	mm	ASTM D2202
Elastic Recovery	>70	%	ISO 7389
Shore A Hardness	33		ASTM C661
VOC content	98.84	g/L	USEPA Method 24

### REFERENCE STANDARD

- · ASTM C920 and ASTM C719, Type S, Grade NS, Class 50, Use NT, M, A & G
- · Low VOC USEPA Method 24 under SCAQMD Rule 1168
- · Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant

• Sirim Test - ASTM D412: 2016

# **APPILCATION**

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

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#### **Application Direction**

#### Cartridge

- 1. Cut the tip of the cartridge, then load it into a caulking gun.
- 2. Position the nozzle against the joint at an angle of approximately 45° to 60°, then cut the nozzle to the desired diameter for application.
- 3. For a neat finish, apply masking tape along the edges of the joint before starting work.
- 4. If the joint is large, with a depth greater than 10 mm, insert a high-quality round or flat backing rod before applying the sealant.
- 5. Apply the sealant into the joint using a caulking gun, filling the joint completely or slightly overfilling.
- 6. Tool the sealant immediately with a soapy-finger method or a spatula, then remove the masking tape before the sealant skins over.
- · Minimum joint depth should not be less than 6 mm to accommodate movement.
- Sealant design joint width-to-depth ratio should be 2:1.

# Coverage

Clean Up

Limitations

Joint Design

Width, W	Depth, D	Coverage (300 ml)*
6 mm	6 mm	7.58 meter
10 mm	10 mm	2.73 meter
20 mm	10 mm	1.36 meter
25 mm	12 mm	0.91 meter

- \* \* The coverage figures shown above are approximate linear meter run based on 10% wastage assumption. Actual coverage may vary.
- · Calculation formula:

Coverage (cm) = volume of cartridge (or sausage) in ml / [(joint width(cm) x joint depth(cm)) x 1.1]

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

Cured sealants can only be removed mechanically

Not recommended for following applications:

- · Structural glazing applications.
- Below waterline or permanent water immersion.
- Applications that requires the sealant to be painted.
- · Traffic areas subject to abrasion.
- · Polycarbonate, Polyacrylate, Neoprene Rubber

#### 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

#### **SAFETY PRECAUTIONS**

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

### **DISCLAMER**

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.

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