



VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-200 Multi Purpose Sealant



Issuance date: 31/03/08

Revision date: 27/02/2023

Revision No.: 23-01

VT-200 Multi Purpose Sealant

100% Acetoxy Silicone Sealant



BASE

Silicone polymer

PHYSICAL STATE

Paste

(Before curing)

Elastic rubber

(After cured)

STANDARD COLOURS

(C10) Clear

(W10) White

(G10) Grey

(B10) Black

SPECIAL COLOUR

(Made-to-Order)

(B30) Bronze

(R10) Red

TACK-FREE TIME

5 – 15 minutes

(at 25°C & 50% R.H.)

PACKAGING

300 mL/cartridge

(24 cartridges/carton)

SHELF LIFE

12 months (cartridge)

STORAGE

Store in a dry and cool place with temperature below 30 °C

APPLICATION TEMPERATURE

-20 °C – 50 °C

SERVICE TEMPERATURE

Up to 150 °C



DESCRIPTION

VT-200 Multi Purpose Sealant is a general purpose acetoxy silicone sealant. It has excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, and many cleaning detergents and solvents. This elastomeric sealant is permanently elastic upon curing.

Specially formulated to achieve low VOC, VT-200 is able to comply to the requirements of SCAQMD rule #1168 (Architectural Sealant) for low VOC.

TECHNICAL DATA

Curing system	: Moisture curing, acetoxy	
Specific gravity	: 1.00 – 1.04 g/mL	
Slump	: <1 mm	ASTM D2202
Tensile strength	: >1.0 N/mm ²	ASTM D412
Elongation at Break	: >250 %	ASTM D412
Shore A hardness	: 25 - 35	ASTM C661
VOC content	: 26 g/L	USEPA Method 24
Low VOC compliance	: Yes	SCAQMD Rule 1168

FEATURES

- 100% acetic silicone
- Low VOC compliant
- Food contact safe
- Industrial grade
- Permanently flexible
- Indoor and outdoor use

APPLICABLE TESTS / STANDARDS

- VT-200 meets the requirements of:
- Low VOC - USEPA Method 24 under SCAQMD rule 1168
 - FDA 21 CFR part 175.300 (Food contact safe)
 - RoHS I & RoHS II Directive 2011/65/EU

APPLICATION

- General glazing: Glass, aquarium, fiberglass, plastic, aluminium, most painted and powder-coated materials.
- Curtain wall sealing: Glass, and plastic.
- General sealing: Skylights, ventilators, air-conditioning.

PREPARATION

- Substrate surface must be dry and clean; free of dirt, grease, oil, or standing water.
- For a neat finishing, use masking tape and remove it within the working time.
- For sealant designs with depth of over 10 mm, use approved backing materials.

APPLICATION DIRECTION

- Cut the cartridge tip carefully.
- Cut the nozzle into an appropriate diameter at an angle of approximately 45° to 60°.
- Use a caulking gun and extrude the sealant with a single bead.
- Tool the sealant bead with a clean and dry tool within the working time for a smooth finishing.

CLEAN UP

- Wet sealants can be cleaned up with acetone or mineral spirits.
- Cured sealants can only be removed mechanically.



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- JOINT DESIGN**
- The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction.
 - Generally calculation of the width sealant bead should be computed on the basis of a maximum $\pm 25\%$ movement capability
 - 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

Width	Depth	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:

$$X / [(Y \times Z) \times 1.1] = \text{Coverage}$$

X = volume of cartridge (or sausage) in ml,

Y = joint width in cm, **Z** = joint depth in cm,

1.1 = 10% wastage assumption,

Coverage = linear meter run in cm per cartridge (or sausage)

LIMITATIONS

Not recommended for following applications:

- Substrates that could be corroded by acetic acid released as the sealant cures.
- Copper or any alloys containing copper.
- Polyethylene, polypropylene, and polytetrafluoroethylene (Teflon)
- Traffic areas subject to abrasion.
- Structural glazing.
- Substrates such as concrete, marble, quartzite, or natural stone.
- Neoprene rubber.

CAUTION

Product releases acetic acid during application and curing. Keep out of reach of children. Use in well ventilated areas. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

LEGAL NOTES

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.

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