



# VITAL TECHNICAL SDN. BHD.

## Technical Data Sheet

### VT-201 All Purpose Sealant



Issuance date: 31/03/08

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Revision No.: 26-01

# VT-201 / VT-201S All Purpose Sealant

## Acetoxy Silicone Sealant

### BASE

Silicone polymer

### PHYSICAL STATE

Soft Paste  
(Before cure)  
Elastic rubber  
(After cure)

### STANDARD COLOURS

(C10) Clear  
(W10) White  
(B10) Black  
(G10) Grey

### SPECIAL COLOURS

(Made-to-Order)  
(A10) Aluminium  
(B30) Bronze  
(B32) Dark Bronze

### TACK-FREE TIME

10 – 30 minutes  
(at 25 °C & 50% R.H.)

### PACKAGING

270 mL/cartridge  
(24 cartridges/carton)  
280 mL/cartridge  
(24 cartridges/carton)  
500 mL/sausage  
(20 sausages/carton)

### SHELF LIFE

12 months

### 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-201 All Purpose Sealant is a general acetoxy silicone sealant formulated for various sealing applications like glazing, where long term reliability is required. It will bond to form a durable, flexible, and waterproof seal on many common wet area building materials. This elastomeric joint sealant is permanently elastic after curing.

### TECHNICAL DATA

Curing system	: Moisture curing, acetoxy	
Specific gravity	: 0.95 – 0.98 g/mL	
Tensile strength	: >0.5 N/mm <sup>2</sup>	ASTM D412
Elongation at Break	: >350 %	ASTM D412
Movement capability	: ±25 %	ASTM C719
Shore A hardness	: 10 – 20	ASTM C661
VOC content	: 98.51 g/L	USEPA method 24

### FEATURES

- Versatile sealant
- ±25 % movement capability
- Indoor and outdoor use
- Permanently flexible
- Excellent durability

### APPLICABLE TESTS / STANDARDS

- VT-201 meets the requirements of:
- ASTM C920, Type S, Grade NS, Class 25, Use NT, A & G
  - RoHS I & RoHS II
  - SIRIM Product Certification Licence PC013998 (ASTM C920:2018)

### APPLICATION

- Well-suited for general sealing applications such as skylights, ventilators, air-conditioning systems, plastic signs, glass block structures and as a bedding for marine hardware.

### 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 within the working time.
- For sealant designs with depth of over 10 mm, use approved backing materials.

### APPLICATION DIRECTION

1. Cut the cartridge tip carefully.
2. Cut the nozzle into an appropriate diameter at an angle of approximately 45° to 60°.
3. Use a caulking gun and extrude the sealant with a single bead.
4. 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.

### 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 ±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.

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**VT-201**  
All Purpose Sealant**COVERAGE**

Width	Depth	Coverage (280 ml) *
6 mm	6 mm	7.07 meter
10 mm	10 mm	2.55 meter
20 mm	10 mm	1.27 meter
25 mm	12 mm	0.85 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.