Issuance date: 31/03/08 **Revision date: 05/03/2025** **Revision No.: 25-03**

VT-212 Sanitary Sealant

100% Neutral Silicone Sealant

BASE
Silicone polymer

PHYSICAL STATE
Non-sagging paste
(Before cure)
Elastic rubber
(After cure)

STANDARD COLOURS
(T10) Translucent
(W10) White

SPECIAL COLOURS
(Made-to-Order)
(A20) Almond Ivory
(A30) Alabaster
(B11) Black Simbiet
(B20) Brown
(B30) Bronze
(B40) Beige
(B41) Beige
(C20) Charcoal
(G10) Grey
(G11) Light Grey
(G13) Mid Grey
(G14) Tile Grey
(G15) Misty Grey
(G16) Beige Grey
(G17) Mid Grey
(P10) Pewter
(S20) Stone
(S21) Blue Stone
(T20) Teak
(T30) Taupe
(T40) Titania
(T50) Travertine
(W11) Off White
(W12) Off White

TACK-FREE TIME
10 – 30 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
-40°C - 150 °C

DESCRIPTION

VT-212 Sanitary Sealant is a silicone sealant with excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, and many cleaning detergents and solvents. It is a single-component elastomeric sealant that is permanently elastic upon curing and has a movement capability of ±25 %.

Specially formulated to achieve mildew resistance and low VOC. VT-212C is able to comply with the stringent requirements of ASTM C920 as well as contribute to the Leadership in Energy and Environmental Design (LEED) v4.1 credit.

TECHNICAL DATA

Curing system	: Moisture curing, neutral	
Specific gravity	: 1.02 g/mL	
Slump	: <1 mm	ASTM D2202
Ultimate tensile strength	: 1.3 N/mm²	ASTM D412
Elongation at break	: 390 %	ASTM D412
Movement capability	: ±25 %	ASTM C719
Shore A hardness	: 23	ASTM C661
Anti-fungal testing	: 0 rating (No growth)	ASTM G21
Low VOC compliance	: Yes	SCAQMD Rule 1168
VOC content	: 31.11 g/L	USEPA Method 24
	: 3.4 %	USEPA Method 310

FEATURES

- 100% neutral silicone
- Antifungal
- ±25 % movement capability
- Low VOC compliant
- Permanently flexible
- Indoor and outdoor use

APPLICABLE TESTS / STANDARDS

VT-212 meets the requirements of:
- ASTM G21 (Antifungal)
- FDA 21 CFR Part 175.300 (Food contact safe)
- ASTM C920, Type S, Grade NS, Class 25, NT, A & G
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
- Low VOC - USEPA Method 24 & USEPA Method 310 under SCAQMD Rule 1168

APPLICATION

- Well-suited for use in damp areas such as toilets and kitchens where fungal growth on sealants are prevalent.
- Widely used to seal shower enclosures, bathtubs, sinks, etc.

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.
- 602 Primer is recommended especially for porous substrates such as concrete for excellent adhesion.
- For sealant designs with depth of over 10 mm, use approved backing materials.

APPLICATION DIRECTION

Cartridges:
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.

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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.

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** x **Z**) x 1.1] = ***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:

- Below waterline or permanent water immersion.
- Traffic areas subject to abrasion.
- Polycarbonate and polyacrylate, if under tension.
- Applications that require the sealant to be painted.
- Neoprene rubber.

CAUTION

Product releases methylethylketoxime. May cause an allergic skin reaction. Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection / hearing protection. Specific treatment. If skin irritation or rash occurs: Get medical advice / attention. Take off contaminated clothing and wash it before reuse. 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.