



VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-223 Ultra Flex Gap Sealant



Issuance date: 01/02/2019

Revision date: 01/09/2022

Revision No.: 22-02

VT-223 Ultra Flex Gap Sealant

High Elastic Acrylic Sealant



BASE

Water-based acrylic

PHYSICAL STATE

Non-sagging paste

STANDARD COLOUR

White

SPECIAL COLOUR

(Made-to-Order)

Black

TOOLING TIME / WORKING TIME

<15 minutes

(at 25°C & 50% R.H.)

SKIN-FORM TIME

15 minutes

PACKAGING

450 g/ cartridge

(24 cartridges/carton)

SHELF LIFE

24 months (cartridge)

STORAGE

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

(Do not store below 5 °C)

APPLICATION TEMPERATURE

5 °C – 50 °C

SERVICE TEMPERATURE

-10 °C – 75 °C

DESCRIPTION



VT-223 Ultra Flex Gap Sealant is a premium and highly elastic acrylic sealant, suitable for both external and internal sealing applications. It is formulated with enhanced UV resistance property and can withstand up to $\pm 25\%$ movement. It is paintable and formulated for sealing gaps and joints where high movements or vibrations are expected.

Specially formulated to achieve superior performance and feature low VOC emission and content, VT-223 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

Base	: Acrylic latex	
Curing system	: Water evaporation	
Specific gravity	: 1.57 g/mL	
Solid content	: 81%	
Slump test	: No slump	ASTM D 2202
Stain index	: No stain	ASTM D 2203
Maximum Tensile strength	: 1.0 N/mm ²	ASTM D 412
Elongation at break	: 400%	ASTM D 412
Movement capability	: $\pm 25\%$	ASTM C 719
Shore A hardness	: 28	ASTM D 2240
Low VOC compliance	: Yes	SCAQMD Rule 1168
VOC content	: 25.90 g/L	USEPA Method 24

FEATURES

- $\pm 25\%$ Movement capability
- Exterior & Interior sealant applications
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
- Paintable
- Permanently flexible & easy clean up

APPLICABLE TESTS / STANDARDS

- VT-223 meets the requirements of:
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
 - ASTM C920 & ASTM C719, Type S, Grade NS, Class 25, Use NT, M
 - Low VOC - USEPA Method 24 and SCAQMD Method 304-91 under SCAQMD Rule 1168

APPLICATION

- It is ideal for external & internal sealing applications. It is good for sealing of building joints that are subject to movement (door and window joints, cabinet and wardrobe installation, skirting of wood flooring, etc.). Suitable for various substrates (metal, PVC, wood, concrete, gypsum boards, reinforced cement boards, marble, 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 it within the working time.
- For sealant designs with depth of over 10 mm, use approved backing materials.

APPLICATION DIRECTION




1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. Surfaces should be cleaned with alcohol, M.E.K. or other suitable solvent. Do not use soap or detergent.
3. For a neat finish, apply masking tape and remove it before sealant skins over.
4. Cut nozzle at 45° angle to desired bead-width and apply to substrate with cartridge gun.
5. Tool the sealant within 15 minutes of extrusion before it skins.
6. Allow to dry for one hour before applying water-based paint and 24 hours for oil-based paint.
7. Uncured sealant can be cleaned up with damp cloth.

CLEAN UP

- Wet sealants can be cleaned up with water.
- Cured sealants can only be removed mechanically.

LIMITATIONS

- Not recommended for following applications:
- Applied outdoors if it is likely to be rained upon within 2 hours of application.
 - Use in areas of constant water immersion.

	VITAL TECHNICAL SDN. BHD.	 
	Technical Data Sheet	
	VT-223 Ultra Flex Gap Sealant	

Issuance date: 01/02/2019

Revision date: 01/09/2022

Revision No.: 22-02

VT-223

Ultra Flex Gap Sealant

CAUTION

Contains a mixture of CMIT/MIT. May produce an allergic reaction. Keep out of reach of children. 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.