



VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-224 Rainbow Seal



Issuance date: 31/03/2008

Revision date: 04/05/2025

Revision No.: 25-02

VT-224 Rainbow Seal

Water-based Acrylic Sealant



BASE

Water-based acrylic

PHYSICAL STATE

Soft paste

TOOLING TIME / WORKING TIME

<15 minutes
(at 25°C & 50% R.H.)

SKIN-FORM TIME

15 minutes

STANDARD COLOURS

(B10) Black
(B20) Brown
(B21) Light brown
(B22) Dark brown
(B40) Beige
(B50) Barley
(C30) Coffee
(G10) Grey
(G14) Greenish grey
(M10) Merbau
(S10) Cherry
(T20) Teak
(T30) Terra cotta
(W10) White
(G15) Charcoal Grey

PACKAGING

450 g/ cartridge
(24 cartridges/carton)

SHELF LIFE

24 months

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-224 Rainbow Seal is a premium quality acrylic sealant formulated for sealing gaps and joints where conventional fillers would crack and fall off with slight movements and vibrations.

VT-224 has various colours selection, making it suitable to match with the colour of the building materials to be sealed.

TECHNICAL DATA

Base	: Water-based acrylic	
Curing System	: Water evaporation	
Specific gravity	: 1.61 g/mL	
Solid content	: 81 %	
Ultimate Tensile strength	: 1.0 N/mm ²	ASTM D412
Elongation at break	: 190 %	ASTM D412
Shore A Hardness	: 20	ASTM C661
Low VOC compliance	: Yes	SCAQMD Rule 1168
VOC content	: 36.97 g/L	USEPA Method 24

FEATURES

- Low VOC compliance
- Various colours available
- Dries true to wet colour
- Permanently flexible

APPLICABLE TESTS / STANDARDS

- VT-224 meets the requirements of:
- Low VOC - USEPA Method 24 and SCAQMD Method 304-91 under SCAQMD Rule 1168

APPLICATION

- With a wide variety of colours, one can match the colour of various construction materials. General sealing applications (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.



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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.
- Minimum bead size should not be less than 3 mm to accommodate movement.
- Sealant design joint width-to-depth ratio should be 2:1..

LIMITATIONS

Not recommended for following applications:

- Below waterline or permanent water immersion.
- Traffic areas subject to abrasion.
- Joint movement of more than 10%.
- Outdoors if it is expected to rain within two hours of sealant application.

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.