

 A member of 	VITAL TECHNICAL SDN. BHD.		 
	Technical Data Sheet		
	VT-828 Roadseal		

Issuance date: 14/07/2025

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Revision No.: 26-02

VT-828 Roadseal

Non-slump High Movement Silicone Joint Sealant

BASE

Silicone polymer

PHYSICAL STATE

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

STANDARD COLOURS

(G10) Grey

TACK-FREE / SKIN-FORM TIME

45 – 90 minutes
(at 25 °C & 50% R.H.)

PACKAGING

600 mL/sausage
(20 sausages/carton)
230 kg/drum

SHELF LIFE

12 months

STORAGE

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

APPLICATION TEMPERATURE

Ambient to 50 °C

SERVICE TEMPERATURE

-40 °C to 150 °C

DESCRIPTION

VT-828 Roadseal is a silicone sealant with excellent resistance to weathering, UV radiation, vibration and fuel resistant in short term exposure. It is a single-component elastomeric sealant that is permanently elastic upon curing. Specifically designed and developed for concrete joint applications.

TECHNICAL DATA

Curing system	: Neutral (Oxime), Moisture cure	
Specific gravity	: 1.17 g/mL	
Slump	: 0mm	ASTM D2202
Ultimate tensile strength	: 1.1 MPa	ASTM D412
Elongation at break	: >800 %	ASTM D412
Shore A hardness	: 15	ASTM C661

FEATURES

- Movement capability 100% extension and 50% compression
- Ultra-high elongation & low modulus
- Weather and UV resistant
- Fuel resistant short-term exposure
- Easy application

APPLICABLE TESTS / STANDARDS

VT-828 meets the requirements of:
 ▪ ASTM D5893 Standard Specification for Cold-Applied, Single-Component, Chemically Curing Silicone Joint Sealant for Portland Cement Concrete Pavements

APPLICATION

- Sealing of vertical and horizontal joints in concrete where extreme joint movement is expected
- New construction, remedial concrete work, and minor spalling
- Suitable for sealing road surface joints and pavement expansion joints in airport runways, shipping container seaports, and highway flyovers.

PREPARATION & PRIMING

- 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.
- The use of VT-602 Concrete Primer is recommended to enhance adhesion on concrete joints.

APPLICATION DIRECTION

Sausages:

1. Cut the tip of the sausage carefully and slip it into the caulking gun.
2. Cut the nozzle into an appropriate diameter at an angle of approximately 45° to 60°.
3. Place the nozzle into the caulking gun and screw tight.
4. Extrude the sealant with a single bead.
5. 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

LIMITATIONS

Not recommended for following applications:

- Structural glazing applications.
- Below waterline or permanent water immersion.
- Polycarbonate and polyacrylate, if under tension.
- Applications that require the sealant to be painted.
- Neoprene rubber.

CAUTION

Product releases methylethylketoxime during application and curing. May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Keep out of reach of children. 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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LIMITED WARRANTY INFORMATION

Vital Technical provides material warranty for a duration of 10 years if the product is used within its shelf life and in compliance with industrial standard application procedures. Vital Technical disclaims liability for any consequential or incidental loss or damages caused by incorrect usage. The material warranty only covers the replacement of the product without the other costs incurred, if the failure is proven to be directly related to the product within the warranty period. Material warranty will only be available once customer submits all the necessary documents and information, and an official material warranty letter is issued by Vital Technical. Any claim of warranty shall be made directly to Vital Technical in writing. Vital Technical shall hold no responsibility until site inspection by representatives of Vital Technical to confirm the alleged failure has been carried out.