

VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-210 / VT-210S High Performance Sealant



Issuance date: 31/03/08

Revision date: 19/04/21

Revision No.: 21-01

VT-210 / VT-210S High Performance Sealant



100% Neutral Silicone Sealant DESCRIPTION VT-210

BASE Silicone polymer

PHYSICAL STATE

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

COLOURS



TACK-FREE /

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

PACKAGING

300 mL/cartridge (24 cartridges/carton) 600 g/sausage (20 sausages/carton) 20 kg/ pail

SHELF LIFE

12 months (cartridge) 12 months (sausage)

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

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VT-210 High Performance 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 ±50 %.

Specially formulated to achieve superior performance and environmental friendly APEO-, formaldehyde- and phthalate- free), VT-210 is able to comply with the stringent requirements of Singapore Green Building Product Labelling Scheme (SGBPLS) as well as the ASTM C920.

VT-210 also conforms to MS-1583: Part 1: 2003 – Suitability of Non-Metallic Product for use in contact in water intended for human consumption with regard to their effect on the quality of water. Additionally, VT-210 Grey meets the requirements for AS/NZS 4020:2005, testing of products for use in contact with drinking water.

TECHNICAL DATA	Curing system : Moisture curing, neutral Specific gravity : 1.02 g/mL					
	Slump	: <1 mm	ASTM D2202			
	Maximum tensile strength	: 1.3 N/mm²	ASTM D412			
	Elongation at break	: 370 %	ASTM D412			
	Movement capability	: ±50 %	ASTM C719 ISO 11600			
		: ± 25 %				
	Shore A hardness	: 25	ASTM C661			
	Low VOC compliance	: Yes	SCAQMD Rule 1168			
V	VOC content	: 43.68 g/L : 0.86 %	USEPA Method 24 USEPA Method 310			
						FEATURES
APPLICABLE TESTS / STANDARDS	 VT-210 meets the requirements of: ASTM C920 & ASTM C719, Type S, Grade NS, Class 50, Use NT, M, A & G ISO 11600, F Class 25 LM Singapore Green Building Product Labelling Scheme (SGBPLS) Low VOC - USEPA Method 24 under SCAQMD Rule 1168 & USEPA Method 310 FDA 21 CFR Part 175.300 (Food Contact Safe) AS/NZS 4020:2005, Testing of Products for Use in Contact With Drinking Water. (VT-210 Green Sirim Test - ASTM D412: 2016 & MS1583-Part 1-2003 RoHS I, RoHS II, ROHS III & SVHC 					
APPLICATION	 Well-suited for a strong weatherproof seal on most common building materials such as glass, aluminium, galvanized and zinc-coated steel, painted surfaces, brick, concrete and mirror bonding. Ideal for sealing metal lap joints in roofing, guttering and cladding applications. 					
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. 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	3. Use a caulking gun and ex	ropriate diameter at a strude the sealant with	n angle of approximately 45° to 60°. a single bead. ol within the working time for a smooth			

4. Tool the sealant bead with a clean and dry tool within the working time for a smooth finishing.

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VT-210 High Performance Sealant	APPLICATION	 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					
	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 ±50 % 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	Donth	Coverage		
				Depth	(300 ml) *	_	
			6 mm	6 mm	7.58 meter	_	
			10 mm	10 mm	2.73 meter	_	
			20 mm 25 mm	10 mm 12 mm	1.36 meter 0.91 meter	_	
		* The cove				sed on 10% wastage assumptio	
	LIMITATIONS	 1.1 = 10% wastage assumption, Coverage = linear meter run in cm per cartridge (or sausage) Not recommended for following applications: Structural glazing applications. Below waterline or permanent water immersion. Traffic areas subject to abrasion. Polycarbonate and polyacrylate, if under tension. Applications that requires the sealant to be painted. Neoprene rubber. 					
	CAUTION	Product releases methylethylketoxime during application and curing. May cause an allergic skin reaction. Avoid breathing vapours. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. IF ON SKIN: Wash with soap and water. If skin irritation or a rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. 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 ou control. Users are advised to confirm suitability of this product by their own tests.					
	LIMITED WARRANTY INFORMATION	Vital Technical provides material warranty for a duration of 10 years if the product is use within its shelf life and in compliance with industrial standard application procedures. Vita Technical disclaims liability for any consequential or incidental loss or damages caused be 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 Vita Technical. Any claim of warranty shall be made directly to Vital Technical in writing. Vita Technical shall hold no responsibility until site inspection by representatives of Vital Technicat to confirm the alleged failure has been carried out.					