

Formulated For the Professional

VITAL TECHNICAL SDN. BHD.

VT-620/ 620S

LM MS Sealant

Technical Data Sheet



Issuance Date: 14/02/11 **Revision No.:** 29 17/06/16 **Revision Date:** 1 Of 2 Page:

VT-620/ 620S LM MS Sealant

One-component

PHYSICAL STATE Soft paste

COLORS White Grey Black Teak

BASE

MS Polymer

TACK-FREE TIME 30 - 60 minutes (at 25°C & 50% R.H.)

PACKAGING 290 mL/cartridge (20 cartridges/carton) 600 mL/sausage (20 sausages/carton)

SHELF LIFE 9 months (cartridge) 12 months (sausage)

STORAGE Store in a dry and cool place with temperature around 25°C

APPLICATION TEMPERATURE 5 °C – 40 °C

SERVICE TEMPERATURE -30 °C - 100 °C



Low Modulus One-Component MS Sealant



VT-620 LM MS Sealant is a general purpose sealant based on advanced MS Polymer technology. It is a single-component elastomeric sealant with superior weathering, UV, and temperature resistance. This elastomeric sealant is permanently elastic upon curing and has a movement capability of ±50%.

Specially formulated to achieve superior performance and low VOC, VT-620 is able to comply to the stringent requirements of ASTM C920 as well as the SCAQMD rule #1168 (Architectural Sealant) for low VOC. It also gives good primer-less adhesion on most substrates.

Unlike polyurethane sealants, VT-620 is solvent-less and isocyanate-free; ensuring that the cured sealant will not shrink or have bubbling issues. It is also free of silicone oil, minimising building aesthetic issues caused by oil-staining and dirt-streaking problems often associated with silicone sealants.

TECHNICAL DATA	Base Curing System Density Tensile Strength Elongation Lap Shear Strength Movement Capability Shore A Hardness Low VOC Compliant	: 1-component MS Polymer : Moisture curing : Approx. 1.55 g/mL : >1.0 N/mm ² : >600% : >0.5 N/mm ² (Al to Al) : ±50% : 25 – 35 : Yes; <10 g/L	ASTM D 412 ASTM D 412 ASTM D1002 ASTM C719 ASTM C661 USEPA Method 24			
FEATURES	 ASTM C920/ ISO11600 compliant ± 50% movement capability Good UV resistance Low static charge – Less dirt streaking Silicone free – Paintable Isocyanate free – No air bubbling Solvent free – No shrinkage Reactive plasticizer – Non-staining Primer-less bonding to most surfaces 					
APPLICATIONS	Recommended for sealing concrete joints like wall panel joints, expansion joints, control joints, etc. It is also ideal for window frame perimeter sealing especially when the sealant needs to be painted. Facade cladding designed with metal panels or natural stones can be sealed with this product too. Other recommended applications include sealing of anodized aluminum, masonry, porcelain, coated metal, finished wood, epoxy and polyester panels, UPVC, polystyrene, and stainless steel.					
PREPARATION	 Substrate surface must be dry and clean; free of dirt, grease, oil, or standing water. Use the two-cloth method to clean if surface is dirty. For a neat finishing, use masking tapes 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 depths of over 10 mm, use approved backing materials. 					

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VT-620 LM MS Sealant	APPLICATION DIRECTION	4 Out the contrider the construction					
	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 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. Outdoor glass substrates sealing. Polyethylene, polypropylene, polytetrafluoroethylene (Teflon), neoprene, and bituminous surfaces. Paintable with alkyd resin paint. Used on trafficable joints greater than 10 mm width. For trafficable joint above 10 mm width, a steel cover plate is required. 					
	CAUTION	 Uncured adhesive causes skin and eye irritation upon contact. Avoid contact with eyes, skin and mouth. Use in well-ventilated area. In case of contact with eyes, flush with water immediately for 15 minutes. If irritation persists, seek medical attention. Keep out of reach of children. EUH208 - Contains 3-(2-Aminoethylamino) propyltrimethoxysilane. May produce an allergic reaction 					
	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 various processing or working conditions and of workmanship outside our 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 5 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.					