

VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-621 All Purpose MS Sealant



Issuance date: 14/02/11

BASE

One-component MS Polymer

PHYSICAL STATE Soft paste

STANDARD COLORS

Revision date: 14/02/23

Revision No.: 23-01

VT-621 All Purpose MS Sealant Medium Modulus One-Component MS Sealant

DESCRIPTION



VT-621 All Purpose MS Sealant is a single-component, high-performance sealant based on advanced MS Polymer technology. It is solvent, silicone and isocyanate free. It is excellent in UV, weather and temperature resistance. Its adhesion over a wide variety of substrates is very good, and is paintable with most types of common industrial paints.

(B10) Black (G10) Grey (W10) White TACK-FREE/ SKIN-FORM TIME 5 – 20 minutes (at 25 °C & 50% R.H.) PACKAGING 290 mL/cartridge (20 cartridges/carton)	TECHNICAL DATA	Curing system Specific gravity Maximum tensile strength Elongation at break Lap shear strength Initial grab strength Shore A hardness Low VOC compliance VOC content	: Moisture curing : 1.49 g/mL : 1.7 N/mm ² : 0.60 N/mm ² (6.2 kgf/cm ²) : 290 % : 1.4 N/mm ² : 50 kg/m ² : 42 : Yes : 52.39 g/L	ASTM D 412 ISO 8339 ASTM D 412 ASTM D1002 ASTM C661 SCAQMD Rule #1168 USEPA Method 24
SHELF LIFE 12 months STORAGE Store in a dry and cool place with temperature below 30 °C APPLICATION TEMPERATURE 5 °C - 40 °C SERVICE TEMPERATURE -30 °C - 90 °C	FEATURES	High strength and elasticGood UV resistancePaintable		
	APPLICABLE TESTS / STANDARDS	VT-621 meets the requirements of:Low VOC - USEPA Method 24 under SCAQMD Rule 1168		
	APPLICATION	Suitable for high strength sealing or bonding in construction, automotive, marine, and industrial applications. It works on various substrates like plastics, metals, rubber, natural materials (wood, plywood, leather, cloths, paperboard etc.) & inorganics (concrete, mortar, natural stone, tile, glass, porcelain etc.).		
	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. (Refer application direction) For a neat finishing, use masking tapes and remove it within the working time. 602 Primer is recommended for porous substrates such as concrete for excellent adhesion. For sealant designs with depths of over 10 mm, use approved backing materials. 		
(Scan to learn how to use)	 APPLICATION DIRECTION Two-cloth Method Use a clean, lint-free, and absorbent cloth. Pour an appropriate amount of solvent onto the cloth. DO NOT dip the cloth into the solvent container as it could contaminate the cleaning solvent. Wipe vigorously to remove any contaminant and check if there is any contaminant picked up. Continuously wipe the surface until no contaminant is picked up. Always rotate the cloth to make sure a clean area of the cloth is used to wipe the surface. Immediately wipe the surface with solvent with a separate clean cloth. This will ensure that the surface to be free of any dirt or contaminant left by the first wipe. Make sure that the surface is dried off completely before applying primer or sealant Choice of solvent Detergents and soap solutions should not be used as they will leave a film on the surface. On the other hand, oil-based solvents (mineral spirits, turpentine, kerosene, etc.) would leave oily stains on the substrates. S0% solution of isopropyl alcohol (IPA) and water is generally recommended to wipe minor surface contaminants. For tougher stains, use ketones such as acetone or methylethylketone (MEK). For oil and grease, MEK and toluene is recommended. Always test the solvent or cleaning agent on an inconspicuous area of the substrate, to make sure it will not damage the substrate. 			



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		 Cartridges: 1. Cut the cartridge tip carefully. 2. Cut the nozzle into an appropriate diameter at a 3. Use a caulking gun and extrude the sealant with 4. Tool the sealant bead with a clean and dry tool b 	h a single bead.			
	CLEAN UP	Wet sealants can be cleaned up with acetone or mineral spirits.Cured sealants can only be removed mechanically.				
	JOINT DESIGN	 Joint dimension should be designed by taking into consideration the movement capability of the sealant and the anticipated joint movement Generally the joint width-to-depth ratio is 2:1 for joint width ≥12 mm, or 1:1 for joint width <12 mm Joint width: minimum = 6 mm, maximum = 35 mm * Joint depth: minimum = 6 mm, maximum = 12 mm * Sealing joints with larger joint width is possible but sealant may sag in vertical applications. 				
	COVERAGE	WidthDepth6 mm6 mm10 mm10 mm	1 7.32 meter			
		20 mm 10 mm 25 mm 12 mm	n 1.32 meter			
		 Calculation formula: X / [(Y x Z) x 1.1] = Coverage X = volume of cartridge (or sausage) in ml, Y = joint width in cm, Z = joint depth in cm, 1.1 = 10% wastage assumption, Coverage = lineal meter run in cm per cartridge (coverage) 	or sausage)			
	LIMITATIONS	 Not recommended for the following applications: Below waterline or permanent water immersion. Outdoor sealing/bonding adjacent to glass subs Polyethylene, polypropylene, polytetrafluoroeth surfaces. Overcoated with Alkyd resin paint - cure inhibition to the pain Chlorinated paint - staining issue Oil based paint - not compatible Used in trafficable joints greater than 10 mm wich a steel cover plate is required. 	trates. lylene (Teflon), neoprene, and bituminous t			
	CAUTION	Keep out of reach of children. Contains aminosilar data sheet available on request. For further healt safety data sheet.				
	LEGAL NOTES	Every endeavour has been made to ensure that the but it is given only for the guidance of our cust responsibility for the loss or damage that may resul possibility of variations of processing or working of control. Users are advised to confirm suitability of	tomers. The company cannot accept any It from the use of the information, due to the conditions and of workmanship outside our			