



VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-628

Power Screw – Instant Grab Adhesive Sealant



Issuance date: 13/02/11

Revision date: 07/11/22

Revision No.: 22-03

# VT-628 Power Screw

## Instant Grab Adhesive Sealant



### BASE

One-component  
MS Polymer

### PHYSICAL STATE

Soft paste

### COLOR

(W10) White

### TACK-FREE/ SKIN-FORM TIME

2 – 5 minutes  
(at 25 °C & 50% R.H.)

### CURE DEPTH

2 – 3 mm / 24 hours  
(at 25 °C & 50% R.H.)

### PACKAGING

290 mL/cartridge  
(20 cartridges/carton)

### 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

### DESCRIPTION



VT-628 Power Screw is an instant grab adhesive sealant based on advanced MS Polymer technology. The instant-grab capability eliminates the need for mechanical support: bracing, nailing, screwing, or other fastening devices.

### TECHNICAL DATA

Curing system	: Moisture curing	
Specific gravity	: 1.69 g/mL	
Ultimate tensile strength	: 2.50 N/mm <sup>2</sup>	ASTM D412
Elongation at break	: 95 %	ASTM D412
Lap shear strength	: 1.9 N/mm <sup>2</sup>	ASTM D1002
Adhesion strength (After 10 minutes)	: 0.18 MPa or 1.8 kg/cm <sup>2</sup>	
(After 24 hours)	: 1.47 MPa or 15.0 kg/cm <sup>2</sup>	
Shore A hardness	: 67	ASTM C661
Low VOC compliance	: Yes	SCAQMD Rule #1168
VOC content	: 55.26 g/L	USEPA Method 24

### FEATURES

- Instant grab (no support required)
- High strength bonding
- Primerless bonding to most substrates

### APPLICABLE TESTS / STANDARDS

- VT-628 meets the requirements of:
- Low VOC - USEPA Method 24 under SCAQMD Rule 1168

### APPLICATION

It may be used without primer, to bond bathroom accessories, panel, skirting board, windowsills, stripes, thresholds, mirrors and insulation materials. It is also widely used in coach work and metal connecting joint in shipbuilding industry.

### 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.

### APPLICATION DIRECTION

#### Two-cloth Method

1. Use a clean, lint-free, and absorbent cloth.
2. Pour an appropriate amount of solvent onto the cloth.
3. DO NOT dip the cloth into the solvent container as it could contaminate the cleaning solvent.
4. Wipe vigorously to remove any contaminant and check if there is any contaminant picked up.
5. Continuously wipe the surface until no contaminant is picked up.
6. Always rotate the cloth to make sure a clean area of the cloth is used to wipe the surface.
7. 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.
8. Make sure that the surface is dried off completely before applying primer or sealant.

#### Choice of solvent

- The choice also solvent or cleaning agents used to clean the surface will affect the adhesior of sealant.
- 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.
- 50% solution of isopropyl alcohol (IPA) and water is generally recommended to wipe minor surface contaminants.

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- 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.

**Application**

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. Cut the tip off and puncture the internal foil seal with the nozzle. Cut the nozzle at 45° angle to desired bead-width and apply the adhesive to substrate with a cartridge gun.
4. Due to the viscous property of the adhesive, we recommend the use of professional caulking gun with reinforced transmission.
5. Bond substrates before the adhesive skins.
6. Uncured adhesive can be cleaned up with mineral spirits.

**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:

- Below waterline or permanent water immersion.
- Polyethylene, polypropylene, polytetrafluoroethylene (Teflon), neoprene, and bituminous surfaces.
- Not paintable with alkyd resin paint.

**CAUTION**

May cause an allergic skin reaction. Causes serious eye irritation. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash hands, forearms and face thoroughly after handling. Do not touch eyes. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, face protection, hearing protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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.