



VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-638 MS Seam Sealant



Issuance date: 16/11/2015

Revision date: 16/10/2025

Revision No.: 25-01

VT-638 MS Seam Sealant

BASE

One-component
MS Polymer

PHYSICAL STATE

Soft paste

COLOR

White
Beige
Black

PACKAGING

290 mL/cartridge
(20 cartridges/carton)

600 mL/sausage
(20 sausages /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-638 MS Seam Sealant is a one-component, high-performance sealant formulated based on advanced MS Polymer technology. This sealant is free of solvent and isocyanate, making it a more environmentally- and human-friendly product. It is also free of silicone oil, thus will not cause fluid streaking issues on vertical surfaces.

It features fast-drying speed, and excellent UV, weather, and temperature resistance. The adhesion on various substrates is excellent even without the use of primer, and the sealant is paintable with most types of common industrial paints.

TECHNICAL DATA

Curing system	: Moisture curing
Specific gravity	: 1.54 g/mL
Maximum tensile strength (ASTM D 412)	: 1.3 N/mm ²
(ISO 8339)	: 0.6 N/mm ²
Elongation at break (ASTM D 412)	: 660 %
(ISO 8339)	: 470%
Shore A hardness (ASTM C661)	: 34
Skin-Form Time	: 10 – 30 minutes
Tear Propagation Resistance	: 6.7 N/mm

FEATURES

- High performance and elastic
- Fast drying
- Paintable
- Low Odour
- Environmentally- & human-friendly
- Primerless bonding to most substrates
- Isocyanate-free – No air bubbling
- Solvent-free – No shrinkage
- Silicone-free – no fluid streaking

APPLICATION

Ideal for making permanent elastic seals of high bonding strength, especially interior and exterior body seams and joints of automobile / truck / coach / train / ship & boat. Its great adhesion on various substrates like metal and FRP, without the need of applying primer when using traditional sealant, has made it a great choice in modern manufacturing and repair works.

In shipping container manufacturing, it can be used for watertight sealing applications like sealing gaps between side and roof panels, CSC plates, bottom rails before laying wooden floorboards, door vents, rivets, etc. Compared with solvent based synthetic rubber sealants, VT-638 has better weathering resistance when used in exterior applications, and when used to seal interior gaps, it will cause less odor as it does not contain solvent.

It is also suitable for various other high-performance, elastic sealing or bonding in construction and industrial applications, especially when painting over sealant is required.

PREPARATION

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. For a neat finishing, apply masking tape and remove it before sealant skins over.
4. Uncured sealant can be cleaned up with mineral spirits.

(Scan to learn how to use)



Visit product page:
<https://vitaltechnical.com/product/vt-638-autobody-seam-sealant/>



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APPLICATION DIRECTION

Cartridges:

1. Cut the cartridge tip carefully.
2. Cut the nozzle into an appropriate diameter at an angle of approximately 45° to 60°.
3. Use a caulking gun and extrude the sealant with a single bead.
4. Tool the sealant bead with a clean and dry tool before the sealant skins for a smooth finishing.

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. Tool the sealant bead with a clean and dry tool before the sealant skins for a smooth finishing.

Spray:

1. Cut the tip of the sausage carefully and slip it into the spray gun.
 2. Manually prime tube by dispensing enough sealant to dislodge the piston in back of tube
 3. Set air pressure and gun per instructions provided with the gun.
- Apply seam sealer and tool (if necessary) to desired finished appearance.

CAUTION

- 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 our control. Users are advised to confirm