

	VITAL TECHNICAL SDN. BHD.	 
	Technical Data Sheet	
	VT-137 All Purpose Putty	

Issuance date: 06/12/2023

Revision date: -

Revision No.: 23-01

Product Description

A hand-mixable, fast setting epoxy putty that mixes in just one minute to quickly repair items made of wood, glass, masonry, metal and plastic. It comes in a handy “tootsie-roll” form, contains pre-measured portions of activator and base throughout with the curing agent (activator) encapsulated in the consistency eliminates drips and runs, providing “no mess” applications with no tools required. It cures to a white colour. Once cured, it can be tapped, drilled, screwed, sawed, machined or painted. It resists rust, shrink or pull away. Also resistant to water, temperature extremes, and chemicals such as hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.



Features

- Fast setting
- Work on all most materials
- Paintable
- Instant bonding and superior strength
- Will not sag or drip

Applications

Ideal to fill cracks and voids, seal leaks, fills nails holes, form and repair handles or tools part, repair ferrous metals, rebuild small engine parts, form nuts & bolts, repair stripped threads, form anchor machines, equipment ducts, pipes, housing & appliances, sink traps and auto bodies.




Bonds to wood, glass, masonry, metal and many plastics. Suitable for interior and exterior use.

Directions

1. Before applying, roughen and clean the area to be repaired.
2. Cut or twist off required amount.
3. Mix by kneading with fingers to a uniform colour. If mixing is difficult, warm the epoxy putty to room temperature or slightly above, or use damp fingers for easier mixing and application.
4. As the epoxy putty is mixed, the two contrasting colours blend into one colour to indicate complete mixing.
5. Apply to surface to be repaired (within 2 minutes of mixing).
6. Force into any cracks or holes and strike off excess material before hardening begins, preferable with a tool wet with clean water.
7. When applying to a damp, wet or slowly leaking area, work the material forcefully into the surface and apply pressure until adhesion begins to take effect.

Caution

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause cancer. Wear protective gloves, protective clothing and eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

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Storage

Provided the adhesive are stored dry and cool in air tight containers, the storage stability will be at least 24 months (before mixing) from day of delivery.

Technical Data:

Typical Uncured Properties

Base	:	Epoxy resin and polymercaptan hardener
Appearance	:	Two-part cylindrical putty
Specific Gravity¹	:	Approximately 1.9 g/mL (15.8 lb/gal)
Working time (10 g, 25 °C)²	:	2 minutes (depending on the adhesive amount and temperature)
Shelf life	:	24 months
Temperature resistance	:	120 °C (continuously)
Non-volatile content	:	100%

Typical Cured Properties

Colour	:	Clear White
Shore D hardness (1 day)³	:	75
Single lap shear strength⁴	:	
- Steel	:	6.2 N/mm ² (900 lbs)
Compressive strength	:	55 N/mm ² (8,000 psi)
Electrical resistance	:	30,000 MΩ
Dielectric strength	:	300 V/mil

¹ Measured according to modified ASTM D1875.

² Tested according to DOTD TR 703-85 Method A.

³ Tested according to modified ASTM D2240 (Cylindrical sample; diameter = 51mm; thickness = 3mm).

⁴ Aluminium coupon prepared and tested according to ASTM D1002; surface treated according to ASTM D2651.

Order information

Code No.	Packaging size
VT-137	50 g tube / pack
VT-137100	50 g tube x 2 / pack

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