


	VITAL TECHNICAL SDN. BHD.	  
	Technical Data Sheet	
	VT-138 / VT-195 Rapid Steel Putty	

Issuance date: 31/03/08

Revision date: 15/02/18

Revision No.: 18-01

Product Description

A hand-mixable, steel-reinforced, epoxy putty that mixes in just one minute to provide fast repairs to items made of ferrous and aluminum metals. It comes in a handy two-ounce "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 for use. It cures to a dark gray metallic color. Once cured, it can be tapped, drilled, screwed, sawed, machined, ground, filed or painted. It will not rust, shrink or pull away. It is 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 metals
- Easy to use
- Instant bonding and superior strength

Applications

Ideal to repair ferrous metals, rebuild small engine parts, fill cracks and voids in metals, seal leaks, form nuts & bolts, repair stripped threads, form anchor machines, repair metal tools, equipment ducts, pipes, housing & appliances, sink traps and auto bodies. Also bonds to wood, glass, masonry 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 color. 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 colors blend into one color 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

Contains epoxy resin and polymercaptopan hardener. May cause severe eyes and skin irritation. Avoid prolonged contact with eyes or skin. In case of contact with eyes, flush with water for 15 minutes and seek medical attention immediately. In case of skin contact, wipe off and wash with soap and water. Not intended for use in structural applications. When sanding cured putty and substrate, use protective eye wear and dust mask.

KEEP OUT OF REACH OF CHILDREN.

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Storage

Provided the adhesive are stored dry and cool in air tight containers, the storage stability will be at least 12 months (before mixing) from day of delivery.

Technical Data:

Typical Uncured Properties

Base	Part A :	Epoxy resin
	Part B :	Polymercaptan hardener
Appearance	Part A :	Grey paste
	Part B :	Black paste
Colour	:	Dark grey
Density¹	:	2.2 g/mL
Working time (10 g, 25 °C)²	:	5 minutes (depending on the adhesive amount and temperature)
Application temperature	:	15 - 35 °C (59 - 95 °F)
Time to handling strength	:	2 hours
Time to full strength	:	24 hours
Shelf life	:	12 months from day of delivery (if stored correctly)
Shore D hardness (1 day)³	:	Minimum 80
Lap shear strength⁴	:	Minimum 5 N/mm ²
Temperature resistance	:	120 °C (continuously)
Non-volatile content	:	100%

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

Order information

Code No.	Packaging size
VT-138	56.8 g (2 oz.)/pack
VT-1382OZ	56.8 g (2 oz.)/tube
VT-1384OZ	113.6 g (4 oz.)/tube
VT-195	28.4 g (1 oz.)/pack

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