

Technical Data Sheet

AS-2338 Fast Metal Putty



Physical Properties

Base:

Part A: Epoxy resin
Part B: Polymercaptan hardener

Appearance:

Part A: Grey paste
Part B: Black paste

Colour:

Dark grey

Application temperature:

15 – 35 °C

Storage:

Store in a dry and cool place with temperature below 30 °C.

Shelf life:

24 months

Packaging:

Content	Quantity/ carton
50 gm	144 packs (12 packs / box)

Description

A hand-mixable, steel-reinforced, epoxy putty that mixes in just one minute to provide fast repairs to items made of ferrous and aluminium 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 grey metallic colour. 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
- ◆ Works on all metals
- ◆ Paintable
- ◆ 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. It also bonds to wood, glass, masonry and many plastics. Suitable for interior and exterior use.

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Typical Uncured Properties

Specific gravity ¹	: 2.2 g/ml
Working time ²	: 5 minutes (depending on adhesive amount and temperature)
Time to handling strength	: 2 hours
Time to full strength	: 24 hours
Temperature resistance	: 120 °C (continuously)
Non-volatile content	: 100%

Typical Cured Properties

Shore D hardness (1 day) ³	: 80
Single lap shear strength ⁴	
- Steel	: 6.2 N/mm
Compressive strength	: 55 N/mm ²
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 = 51 mm; thickness = 3mm).

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

Usage Instructions

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



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Caution

Contains epoxy resin and tri (dimethylaminomethyl) phenol. May produce an allergic reaction. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Keep out of reach of children. Further health and safety information, consult the latest safety data sheet.

Disclaimer

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.