



Epoxies EPOXY PUTTY STEEL

Technical Data Sheet

Reviewed: 23.04.2020



DESCRIPTION

EPOXY PUTTY STEEL is a 2 component, hand kneadable, non-rusting steel reinforced epoxy putty used to provide fast, permanent repairs to items made of ferrous metal. It is supplied in the form of a two-part concentric stick of contrasting colours. EPOXY PUTTY when mixed it sets to a hard, dark grey material which can be drilled, tapped, machined or filed as required.

ADVANTAGES

- Extra strong
- Rapid set
- Easy application
- Suitable for a variety of materials
- Temperature resistant (120°C)
- Water resistant
- Sandable, paintable and machinable
- Fills uneven breaks
- Withstands rough handling
- Will not rust
- 100% solid content
- Solvent free

APPLICATIONS

EPOXY PUTTY STEEL will repair holes, cracks and threads in castings, pipes, tanks, radiators and tools, and can be used to hold fixtures and signs, to make models and prototypes, to form nuts in situ and to lock threads.

INSTRUCTIONS FOR USE

1. In order to achieve optimum adhesion, make sure surfaces are clean and free from dust, corrosion, dirt, grease and preferably dry. Scuffing or sanding the surface prior to cleaning helps to ensure a good bond.
2. Wearing gloves twist or cut off the required amount.
3. To mix, knead with fingers for at least one minute or until it is a uniform dark grey colour.
4. If mixing is difficult, warm to room temperature or slightly above.

5. Press the putty onto the prepared surface within 2 mins of mixing.
6. If it is being used as an adhesive, force some putty against each of the two surfaces to be joined, before pressing the faces together, and support the joint as necessary.
7. If it is being used as a filler/repair material force the putty into the area to be filled, and shape and strike off any excess with a tool wetted with clean water. For a smooth appearance, hand rub with water or a damp cloth prior to the material hardening.
8. After 5 - 10 minutes the EPOXY PUTTY STEEL will harden like metal and start to form a tenacious bond. After 60 minutes the material is sufficiently cured to be drilled or sawn if required, and it will achieve full cure after 24 hours.

It is advisable to perform a suitability test for each application.

CLEANING

Wash hands thoroughly with soap and water immediately after use. Cured material residues can usually be removed mechanically

REMARKS

- Thorough mixing is the key to getting a good cured product.
- **EPOXY PUTTY STEEL** is not suitable for items, which may contain food or drink, as the joint however secure and clean it may appear, may entrap bacteria from the environment. Not intended for repairs on safety critical items e.g. rotating parts of hover mowers.
- Please note that some items are molded from polymers such as polythene or polypropylene, for example, and are simply not designed for repair. Repair may not be viable or would need specialist chemical treatment to achieve a bond.

TECHNICAL CHARACTERISTICS

Colour of mixed product: Dark grey

Working life: 3 min. at 20 °C

Shore D hardness: 80

Shear strength: 6.2MN/m²

Temperature limitations: 120°C continuous
150°C intermittent

Electrical resistance: 30000 megohms

Dielectric strength: 300 volts/mil

Compressive strength: 80MN/m²

Chemical resistance: Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt and bases.

Processing: Can be sanded, drilled and machine processed when set. Please wear dust mask.

Paintability: Good, but confirm by test. Fine sanding helps.

STORAGE

Products should be stored in a dry and cool place at a temperature of 5°C -35°C. Protect from humidity and direct sunlight.

SHELF LIFE

18 months from the production date in the above mentioned storage conditions. The product should remain in the original unopened packaging bearing the manufacturer's batch number.

Evochem®

EVOCHEM S.A.

Tzavardella place 13341, Fyli, Attica, Greece

Tel.: 210 5590460, 210 5590155 Fax: 210 5590244

E-mail: info@evochem.gr Website: www.evochem.gr





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PACKAGING

Display box & Blister 50gr

PACKAGING	CODE	BARCODE
Display box 50gr	01847	5204094018476
Blister 50gr	01835	5204094018353

HEALTH AND SAFETY INFORMATION



H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. P264 Wash contaminated skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362+P364 Take off contaminated clothing and wash it before reuse. Contains EPOXY RESIN (Number average MW \leq 700), POLY(OXY (METHYL-1,2-ETHANEDIYL)), A-HYDRO- ω -HYDROXY-, ETHER WITH 2,2-BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL (4:1), 2-HYDROXY-3-MERCAPTOPROPYL ETHER

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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EVOCHEM S.A.
Tzavardella place 13341, Fyli, Attica, Greece
Tel.: 210 5590460, 210 5590155 Fax: 210 5590244
E-mail: info@evochem.gr Website: www.evochem.gr

