



Epoxies

EPOXY PUTTY MARINE

Technical Data Sheet

Reviewed: 23.04.2020



DESCRIPTION

EPOXY PUTTY MARINE is a 2 component, hand kneadable, epoxy putty that mixes to provide permanent repairs to damp, wet and underwater applications. It may be applied underwater, in either fresh or salt water. It is supplied in the form of a concentric stick with the curing agent encapsulated in the contrasting colour base material. **EPOXY PUTTY MARINE** when mixed it sets to a hard, "fiberglass white" material which can be drilled, tapped, machined or filed as required.

ADVANTAGES

- Humid and underwater applications
- 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 MARINE moulds to permanently patch dents, scratches, cuts, gouges and holes in fibreglass, metal, wood, ceramics and other surfaces. It is ideal for repairs of boat decks and hulls, fittings, pipes, electrical connections, leaking gaskets, non-potable water tanks, tackle box, tubs, battery cases, sinks, toilet basins, spas, hot tubs, pools etc. It is ideal for emergency repairs.

INSTRUCTIONS FOR USE

1. In order to achieve optimum adhesion, make sure surfaces are clean and free from dust, corrosion, dirt, grease and other contamination. 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 5-10 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 20 - 30 minutes the **EPOXY PUTTY MARINE** 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.
- Cure rate for underwater applications is dependent upon the temperature of the water just as it is effected by air temperature in non-immersed applications. The lower the temperature the longer it takes to cure.
- **EPOXY PUTTY MARINE** 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: White

Working life: 15 min. at 20°C

Shore D hardness: 65

Shear strength:

on steel: 6.2MN/m²

on fiberglass: 3.4MN/m²

Temperature limitations: 120°C continuous
150°C intermittent

Electrical resistance: 30000 megohms

Dielectric strength: 300 volts/mil

Compressive strength: 75 MN/m²

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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.

PACKAGING

Display box & Blister 50gr

PACKAGING	CODE	BARCODE
Display box 50gr	01834	5204094018391
Blister 50gr	01836	5204094018360

HEALTH AND SAFETY INFORMATION



H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. 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. Contains: 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, reaction product: bisphenol-A- (epichlorhydrin) TRIETHYLENETETRAMINE 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.

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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