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|  | VITAL TECHNICAL SDN. BHD. |   |
| | Technical Data Sheet | |
| | VT-139 / VT-196 Aquafix All Purpose Putty | |

Issuance date: 31/03/2008

Revision date: 10/12/2025

Revision No.: 25-01



Product Description

A medium setting (30 minutes), fiberglass-reinforced polymer compound that enables permanent repairs to many surfaces including fiberglass, concrete, ceramic, glass, metals, wood and many plastics. It is specially formulated to adhere to surfaces exposed to damp, wet or underwater (salt or fresh) conditions. Each handy stick contains pre-measured portions of activator and base throughout – no measuring or mixing tools are necessary. It contains a fading blue dye and becomes white after mixing. The consistency (like modelling clay) eliminates drips and runs, facilitates adhesion to the substrate and allows the material to be shaped and formed as needed before curing begins. Once cured, it can be drilled, screwed, filed, carved, sanded or painted. It will not 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

- Bond in 30 minutes
- Work on wet surface
- Easy to use

Applicable Tests / Standards

- RoSH Directive 2011/65/EU
- SVHC compliant.

Applications

After proper mixing, the Aquafix All Purpose Putty moulds like clay and may be used to patch dings, scratches, cuts, gouges, and rebuild holes in fiberglass, metal, and wooden boat decks and hulls; to repair fittings, pipes, electrical connections, leaking gaskets, water tanks, fish boxes, marine recreational equipments, tubs, battery cases, sinks, spas, hot tubs, gutters, tanks, pools; to form custom gaskets. It is ideal for repairs to damp wet areas and underwater applications; cures to fiberglass white colour. Suitable for interior and exterior use.

Directions

Mixing

1. Cut or twist off required amount.
2. Mix by kneading with fingers to a uniform white colour. Wet fingers for easier mixing.
3. If it is too hard to knead, warm to room temperature.

Application

1. Apply the epoxy putty onto the surface to be repaired within 10 minutes of mixing.
2. Force into any cracks or holes, then strike off preferably with a tool wet with clean water.

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Caution

Contains epoxy resin and triethylenetetramine. 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. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection / hearing protection. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

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 | : | Epoxy resin and polymercaptan hardener |
| Appearance | Part A : | Green paste |
| | Part B : | White paste |
| Specific gravity | : | ~ 1.9 g/mL |
| Working time (10 g, 25 °C) | : | 3-6 minutes (depending on the adhesive amount and temperature) |
| Time to full strength | : | 24 hours |
| Shelf life | : | 24 months from day of delivery (if stored correctly) |
| Temperature limitations | : | 120 °C (continuously) |
| Non-volatile content | : | 100% |

Typical Cured Properties

| | | |
|--|---|-------------------------------|
| Colour | : | White |
| Shore D hardness (1 day)¹ | : | 75-85 |
| Single lap shear strength² | | |
| - Steel | : | 5.5 – 6.9 N/mm ² |
| Compressive strength | : | 45.9 – 82.7 N/mm ² |
| Electrical resistance | : | 30,000 MΩ |
| Dielectric strength | : | 300 V/mil |

¹ Tested according to modified ASTM D2240.

² Tested according to ASTM D1002; surface treated according to (1" x 1" x 1/16"), lbs.

Packaging

| Code No. | Packaging size |
|-----------|---------------------|
| VT-139 | 50 g/pack |
| VT-13950 | 50 g/tube |
| VT-139100 | 100 g/tube |
| VT-196 | 28.4 g (1 oz.)/pack |

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 will not 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.

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