

permoseal

AQUAMEND®

Wet surface/underwater epoxy putty stick



Description

AQUAMEND® Epoxy Putty Stick is a fast-setting, fibreglass reinforced polymer compound that mixes in just one minute to enable fast permanent repairs to many surfaces including fibreglass, concrete, glass, metals, wood, and many plastics. It is specially formulated to adhere to surfaces exposed to damp, wet or underwater (salt or fresh water) conditions

Each handy stick contains pre-measured portions of activator and base – no measuring or mixing tools are necessary. As the epoxy is mixed by hand, the two contrasting colours blend into one colour to indicate complete mixing. AQUAMEND® contains a fading blue dye and becomes white after mixing. The putty like consistency, eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped and formed as needed before curing begins

Features & Benefits

- Cures under water – Excellent adhesion to submerged surfaces
- Fibreglass reinforced – can be drilled, sawed, sanded, screwed, filed, carved or painted
- Bonds quickly with superior strength – ideal for quick repairs
- 100% solid content – no shrinkage or pulling away
- Easy to use and mistake proof
- Waterproof and chemical resistance – durable, suitable for exterior use
- Heat resistance (up to 149°C)
- Contains no solvents - non-flammable
- Releases no noxious fumes on curing
- Mixed colour: fibreglass white – invisible repairs in swimming pools
- Will not yellow upon exposure to UV light
- Suitable for use in fish ponds

Standards

- **USDA** – acceptable for use in federally inspected meat and poultry plants (under the former Food Safety and Inspection Service product approval program)
- **ABS** – certified by the American Bureau of Shipping for use on marine vessels

Applications

- *Patching* of dings, scratches, cuts, gouges, and holes in fiberglass, metal, and wooden boat decks and hulls
- *Repairs* to fittings, pipes, electrical connections, leaking gaskets, water tanks, tubs, battery cases, sinks, spas, Jacuzzis, tanks, and pools
- *Ideal* for making emergency in-water repairs

Adhesion

AQUAMEND® bonds to fibreglass, metals, wood, glass, plaster, concrete, brick and many plastics Works on wet surfaces and underwater

Limitations

- Not suitable where a flexible bond is required
- Does not bond to polyethylene, polypropylene or Teflon
- Not suitable for structural applications



Safety instructions

When mixing by hand, AQUAMEND® does not cause skin irritation to individuals with normal skin sensitivity. Individuals with extra sensitive skin should maintain caution and wash hands thoroughly after mixing the product, or wear thin plastic gloves

AQUAMEND® has been classified non-toxic and non-skin irritating when tested against the requirements of the Federal Hazardous Substance Labelling Act

Wash hands with soap and water after use. In case of eye contact, flush with water. Contact doctor if irritation occurs. May be harmful if swallowed. **Keep out of reach of children!**

Surface preparation

- In order to achieve optimum adhesion, surfaces should be clean and free of grease and dirt
- Scuffing or sanding the surface prior to cleaning helps ensure a good bond
- Poor surface preparation may result in bond failure

Directions for use

- Cut or twist off the required amount of product
- Mix by kneading with fingers to a uniform colour. If mixing is difficult, warm AQUAMEND® epoxy to room temperature or slightly above
- Apply to the surface to be repaired within 15 minutes of mixing. Force into any cracks or holes to be filled and strike off excess material, preferably with a tool wetted with clean water. When applying to a damp, wet or an immersed area, work the material forcefully into the surface and apply pressure until adhesion begins to take effect

- *For best results*

Use damp fingers for easier mixing and application. Remove excess material before hardening begins. For a smooth appearance of the cured compound, hand rub with water or a damp cloth prior to hardening

- *Curing*

AQUAMEND® epoxy has a work life of approximately 25 minutes. After 30 minutes, it will harden and form a tenacious bond. After 60 minutes, AQUAMEND® can be drilled, sawed, sanded, screwed, filed or painted

In immersed applications the AQUAMEND® cure rate is dependent upon the temperature of the water just as it is affected by the air temperature in non-immersed applications. The lower the temperature the longer it takes to cure

Cleaning

Fresh epoxy can be cleaned with acetone. Cured epoxy has to be removed mechanically or heated above 149°C

Storage stability

- The shelf life of the product is 24 months stored at room temperature
- The unused portion will remain stable for future use if stored in its original package at room temperature

Product packaging

57g stick

Single epoxy stick consisting of activator and base supplied in a reusable clear plastic tube with a plastic friction top



Product Data

i. Physical

Colour – Prior To Mixing Colour – Upon Curing	Blue Outer / White Inner White
Density (g/cm ³)	1.9
Solids (%)	100

ii. Performance

Work life (minutes)	25
Hardens in (minutes)	30
Final cure (minutes)	60
Shrinkage (%) ASTM D-2566	<1
Hardness, Shore D (full cure, 24 hours) ASTM D-2240	70
Compressive strength ASTM D-695	12 000 psi / 560 kg/cm ²
Lap shear tensile strength ASTM D-1002 On steel On fiberglass	900 psi / 63 kg/cm ² 500 psi / 34 kg/cm ²
Upper temperature limitations (°C) Continuous Intermittent	121 149
Electrical resistance (mΩ) ASTM D-257	30 000
Dielectric strength(volts/mil) ASTM D-149	300
Chemical resistance	Resistance to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids & bases
Water resistance	Waterproof
Shelf life (months @ 24 °C) minimum	24 months in sealed container

The above information is only offered, as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for problems caused by the use and/or application of this product.

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