



## TECHNICAL DATA SHEET

# ALCOLIN MIX 'N FIX AQUAMEND®

### Description

ALCOLIN MIX 'N FIX AQUAMEND® Epoxy Putty Stick is a fast-setting high-performance speciality polymer compound that mixes quickly to enable fast permanent repairs to many rigid 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. As the epoxy is mixed by hand, the two contrasting colours blend into one colour (light blue) to indicate complete mixing. The putty-like consistency eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped and formed before curing begins.

### Features & Benefits

- Strong & Durable
- Waterproof
- Sets to a hard finish
- Water smoothable
- Tube format
- 100% solids
- Safe and non-flammable
- long lasting bonds with superior strength
- suitable for underwater applications and bonds to submerged substrates.
- can be drilled, sawed, sanded, carved, stained or painted.
- can be smoothed and formed with a wet finger.
- equal 1:1 ratio, simply cut 'n mix
- will not shrink or pull away, no solvents.
- releases no noxious fumes on curing.

### Applications

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

### Adhesion

ALCOLIN MIX 'N FIX 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, Teflon and polyamide
- Not suitable for structural applications.



## **Safety instructions**

ALCOLIN MIX 'N FIX AQUAMEND® is non-toxic, however, it is advisable to wear gloves to avoid direct skin contact. Individuals with extra sensitive skin should maintain caution and wash hands with soap and water thoroughly after mixing the product or wear thin plastic gloves. In the event of eye contact, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. May be harmful if swallowed. Keep out of reach of children! Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.

## **Surface preparation**

- 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**

1. Cut off the required amount of product.
2. Mix by kneading with fingers to a uniform colour. If mixing is difficult, warm ALCOLIN MIX 'N FIX AQUAMEND® epoxy to room temperature or slightly above. Use damp fingers for easier mixing and application.
3. Apply to the surface to be repaired within 10 minutes of mixing.
4. Force into any cracks or holes to be filled and remove excess material before hardening begins. If applying to a damp, immersed area or plugging a leaking hole, apply firm pressure until adhesion begins to take effect.
5. For a smooth appearance of the cured compound, hand rub with a water dampened cloth prior to hardening.
6. *Curing:* ALCOLIN MIX 'N FIX AQUAMEND® epoxy has a work life of approximately 10 minutes. After 30 minutes, it will harden and form a tenacious bond. After 60 minutes, ALCOLIN MIX 'N FIX AQUAMEND® can be drilled, sawed, sanded, screwed, filed, or painted.
7. In immersed applications the ALCOLIN MIX 'N FIX 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 must be removed mechanically or heated above 120°C.

## **Storage stability**

ALCOLIN MIX 'N FIX AQUAMEND has a 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 data

|                              |                          |
|------------------------------|--------------------------|
| Colour – Prior to mixing     | Blue Outer / White Inner |
| Colour – Upon curing         | Light Blue               |
| Density (g/cm <sup>3</sup> ) | 1.9                      |
| Solids (%)                   | 100                      |

### ii. Performance data

|                                     |                                                                                                                                                                                                             |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work life (minutes)                 | 10                                                                                                                                                                                                          |
| Hardens in (minutes)                | 30                                                                                                                                                                                                          |
| Final cure (minutes)                | 60                                                                                                                                                                                                          |
| Compressive strength                | 50MPA                                                                                                                                                                                                       |
| Hardness (Shore D)                  | 75                                                                                                                                                                                                          |
| Service Temperature (°C)            | -40 to +100 (continuous) / +120 (intermittent)                                                                                                                                                              |
| Chemical resistance                 | Benzene, gasoline, toluene, kerosene, mineral oil, and dilute acids and basis (10%) i.e. hydrochloric acid, phosphoric acid, sulfuric acid, acetic acid, nitric acid, potassium hydroxide, sodium hydroxide |
| Water resistance                    | Waterproof                                                                                                                                                                                                  |
| Shelf life (months @ 24 °C) minimum | 24 months in sealed container                                                                                                                                                                               |

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