



# Alliance Remedial Supplies Limited

*Suppliers of specialist building materials  
and renovation treatment products*

## Epoxy Repair Mortar Underwater



EPOXY MORTAR—UNDERWATER Is for use in exceptionally wet conditions and for underwater applications. For fixing slip bricks and reinstating structures exposed to heavy battering from sea, such as sea walls and jetties. For repairing submerged concrete. Mixed equal parts—Resin and Hardener—No waste. No primer is required. Available in 5 kg Packs

### **EPOXY MORTAR UNDERWATER**

EPOXY MORTAR Underwater is an incredibly tough, solvent free epoxy resin mortar for permanent repairs to worn or damaged concrete structures that are exposed to heavy battering from sea, such as sea walls and concrete jetties. Ideal for repairing concrete that is permanently wet or permanently underwater. This two-part material is mixed equal parts by volume or weight, Resin and Hardener thus minimising wastage.

**Uses:** For the permanent repair to spalled or damaged concrete in exceptionally wet conditions and for underwater applications. Concrete sea walls, jetties and all exposed concrete that are frequently wet or difficult to dry.

**Dry Preparation:** Surfaces must be free from grease, oil and other forms of contamination. Hammer and bolster the concrete clean. Wire brushing is advisable. Remove all loose weak concrete and brush clean. For large areas grit blasting or needle gun preparation is ideal. Under Water Preparation: Surfaces must be mechanically cleaned, free from weak, friable and loose material, marine growth, rust, scale etc.

**Under Water Preparation:** Surfaces must be mechanically cleaned, free from weak, friable and loose material, marine growth, rust, scale etc.

**Mixing:** Either take equal parts from each plastic bucket labelled Pack A (Resin) and Pack B (Hardener) and mix together either: - By Hand: wearing vinyl gloves that are wet. Twist and fold both packs together until the 'putty like' material is uniform in colour. By Drill and Paddle: Mix equal parts together for 3 minutes.

**Application:** Mixed Epoxy Mortar Underwater must be carried in closed buckets or plastic bags to the work area to avoid contact with water until the point of application. Press in small quantities approximately 5mm thick and ensure all the water is expelled from between the surface and the Epoxy Mortar Underwater. Protect the uncured repair from displacement by heavy moving water until hardened. When applying in dry conditions, occasionally clean the trowel with water to release any build-up of resin tack. Do not cover expansion joints but allow any joints to follow through the Epoxy Mortar. Cleaning off Excess: Remove all uncured Epoxy Mortar Underwater with water or detergent solution. Cured hardened material can only be removed by grinding.

**Coverage:** 5kg will cover approximately 1m<sup>2</sup> at 2.50mm depth.

**Yield:** 5kg will yield 2.50 litres of mixed material

**Solids Content:** 100%

**Fresh Wet Density:** 2000 kg/m<sup>3</sup>

**Colour:** Pack A (Resin) off-white — Pack B (Hardener) White Mixed Colour - Concrete Grey

**Pot Life:** When fully mixed, approx. 35 minutes @ 20°C. Extended pot life at lower temperatures, reduced pot life at higher temperatures. NOT FOR USE BELOW 5°C

**Curing Time:** Initial cure after 24 hours @ 20°C. Full cure after 7 days @ 20°C

**Chemical Resistance:** Resistant to spillages of many chemicals commonly met within industry.

**Properties:**

Parameter	Unit	Figure
Compressive Strength	N/mm <sup>2</sup>	80
Tensile Strength	N/mm <sup>2</sup>	15
Flexural Strength	N.mm <sup>2</sup>	32