

EBA2001 Metal Epoxy Stick

PRODUCT DESCRIPTION

A hand kneadable, speciality epoxy putty that mixes in 1 minute for permanent repairs to many substrates. Contains fading black dye that becomes grey after mixing. May be applied under water (fresh or salt). Bonds to Fibreglass, metal, wood, concrete and glass. Not yellow to UV exposure. Hardens in 10 minutes, back in service in an hour, full strength in 24 hours.

APPLICATIONS

Repairing tanks and drums, patching holes in pipes, stopping leaks and repairing porosity holes in castings.

INSTRUCTIONS FOR USE

Proper surface preparation is essential to a successful application. The following procedures should be considered:

First, degrease the surface, oil, grease and dirt must be removed before applying any epoxy material.

All surfaces must be thoroughly roughened ideally by grit blasting (8-40 mesh grit), or by grinding with a coarse wheel or abrasive disc pad. An abrasive disc may be used provided white metal is revealed. This creates increased surface area for better adhesion. A 3-5 mil profile is desired for an application. Do not "feather edge" epoxy materials. Epoxy materials must be "locked up" by defined edges and a good 3-5 mil profile.

Metal that has been handling sea water or other salt solutions should be grit blasted and high pressure water blasted and left overnight to allow any salts in the metal to "sweat" to the surface: repeat blasting to "sweat out" all the soluble salts. A test for chloride contamination should be performed prior to any epoxy application. The maximum soluble salts left on the substrate should be no more than 40p.p.m (parts per million).

Under cold working conditions, heating the repair area to 38°C - 43°C immediately before applying is recommended. This procedure dries off any moisture, contamination or solvents and assists the epoxy in achieving maximum adhesion to the substrate.

All prepared surfaces should be repaired as soon as possible, to eliminate any changes or surface contaminants.

TECHNICAL FEATURES

Colour	Black - changes to grey after mixing
Viscosity	putty/hand kneadable
Pot life @24°C	10 mins
Comprehensive strength	83 N/mm ²
Adhesive tensile shear	5 N/mm ²
Cured hardness shore D	75
Dielectric strength volts/mil	300
Solids	100%
Temperature resistance	Wet 49°C Dry 121°C

CHEMICAL RESISTANCE

7 days room temperature cure (30 days immersion)

10% Sulphuric acid	Fair
10% Hydrochloric acid	Fair
Chlorinated solvents	Very good
Methanol	Very good
Toluene	Very good
Ammonia	Very good
10% sodium hydroxide	Excellent
Kerosene	Very good

Epoxies are very good in water, saturated salt solutions, leaded gasoline, mineral spirits, ASTM # 3 oil and propylene glycol. Epoxies are generally not recommended for long term exposure to concentrated acids and organic solvents. For immersion applications this product is not recommended.

MIXING

Twist or cut off required amount from stick. Then knead with fingers to uniform colour. All black colour dye must be gone and a uniform pure grey colour is left.

APPLICATION

Apply to surface to be repaired within 2 minutes of mixing. The mixed epoxy does not show much bond strength at this time, but can be kneaded or formed into any cracks or holes to be filled.

CURE

After 5-10 minutes the epoxy will harden and form a firm bond. Full chemical cure is reached after 60 minutes. For a smooth appearance of cured epoxy hand rub the epoxy with water prior to hardening.

PRECAUTION

For complete safety and handling information, please refer to the appropriate Material Safety Data Sheets prior to using this product

PRESENTATION

Metal-stick is packaged in a 114 gram clear plastic reusable tube with a plastic end cap or 50 gram clam pack.