



# EPOXY UNIVERSAL

## UNIVERSAL STRONG DUAL-COMPONENT EPOXY ADHESIVE



### PRODUCT DESCRIPTION

Universal strong dual-component epoxy adhesive.

### FIELD OF APPLICATION

Ideal for repairs to metal, ceramics, porcelain, crystal, glass, ivory, pearls, precious stones and various synthetics (polyester, bakelite, formica, rigid polystyrene and acrylic glass (Perspex®)). Not suitable for Polyethylene (PE), polypropylene (PP), PTFE and silicone rubber.

### PROPERTIES

- Super-strong (up to 170 kg/cm<sup>2</sup>)
- Resistant to temperatures between -30°C and +80°C
- Filling
- Water resistant
- Chemical resistant
- Paintable

### PREPARATION

**Working conditions:** Only apply at temperatures between +5°C and +35°C. Product cures by mixing the resin and hardener.

**Personal safety:** Preferably wear gloves.

**Surface requirements:** The materials to be bonded must be dry, clean, free of dust and grease.

**Preliminary surface treatment:** Degrease parts to be bonded with acetone. Roughen smooth surfaces (sandpaper).

**Tools:** Mix the components in the double-syringe by means of the supplied mixing bowl and spatula.

### APPLICATION

**Mixture ratio:** 1:1

**Coverage:** 1 ml = approx 1 cm<sup>2</sup> at a film thickness of 1 mm

#### Directions for use:

Remove the spatula from the side of the double syringe, and the closure cap from the handle. Break the seal of the double syringe. Press out an equal amount of both components onto the enclosed mixing tray. Mix these two equal parts well with a synthetic spatula until a mixture is obtained with a homogeneous colour. Apply the mixture, which at room temperature (+20°C) remains toolable for about 1.5 hours, as a thin layer on one of the two materials. Join the materials and keep them in place for 7 hours. Be careful not to move the parts before the adhesive has cured. After use, clean the nozzle with a cloth and place the special cap in the handle on the double syringe. Resin and hardener must not come into contact with each other unless for usage.

**Potlife:** 1,5 hours.

**Stains/residue:** Remove wet stains immediately with warm water and soap. Cured adhesive residue can only be removed mechanically.

**Advice:** Some types of synthetics can not be joined such as polyethylene and polypropylene. This can be tested by holding a glowing copper wire against the synthetics. Does it smell of wax? Then you can not bond it.

Use a piece of adhesive tape in order to keep the parts in place while the adhesive is curing.

**Points of attention:** After use close well (note: always place back the cap in the same way, due to the bonding of the cap to the double syringe). For optimum performance it is important to create a larger amount of adhesive and mix it very well. Curing time depends on the temperature. Adhesive does not cure below +5°C.

### CURE TIMES\*

**Handling time:** approx. 7 hours.

**Drying/Curing time:** approx. 24 hours. Curing takes longer at lower temperatures, and shorter at higher temperatures

\* Curing time may vary depending on a.o. surface, product quantity used, humidity level and ambient temperature.

### TECHNICAL PROPERTIES

**Moisture resistance:** Good

**Temperature resistance:** -20°C to + 60°C

**Chemicals resistance:** Good

**Paintability:** Good

**Filling capacity:** Good

### TECHNICAL SPECIFICATIONS

**Chemical base:** Resin: epoxy resin. Hardener: modified amide

**Colour:** Light yellow

**Viscosity:** approx. Liquid

**Solid matter:** approx. 100 %

**Density:** approx. 1.15 g/cm<sup>3</sup>

### STORAGE CONDITIONS

At least 24 months after date of manufacture. Limited shelf life after opening. Store cool, dry, frost-free, upright (nozzle upwards) and tightly closed.