

# UHU<sup>®</sup> PLUS ENDFEST

## UNIVERSAL STRONG DUAL-COMPONENT EPOXY ADHESIVE



### PRODUCT DESCRIPTION

Universal strong dual-component epoxy adhesive for repairing metal, pottery, porcelain, glass, ivory, pearls, precious stones and various synthetics. Temperature resistant, water resistant, chemical resistant and paintable.

### FIELD OF APPLICATION

Suitable for repairs to metal, ceramics, porcelain, crystal, glass, ivory, pearls, precious stones and various synthetics (polyester, bakelite, formica, rigid polystyrene and acrylic glass (Perspex<sup>®</sup>)). 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 resin and hardener.

**Personal safety:** Preferably wear gloves.

**Surface requirements:** The surface must be dry, clean and 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 (by volume)

**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. 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:** 90 minutes

**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\*

**Drying/Curing time:** approx. 90 minutes

**Final bonding strength after:** approx. 12 hours

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

### TECHNICAL PROPERTIES

**Moisture resistance:** Good

**Water resistance:** Good

**Temperature resistance:** -40°C - +100°C

**UV resistance:** Very good

**Chemicals resistance:** Very good

**Paintability:** Good

**Filling capacity:** Very good

### TECHNICAL SPECIFICATIONS

**Appearance:** Binder: Opaque with high viscosity; Hardener: Honey Coloured with medium viscosity

**Chemical base:** Binder: Epoxy Resin; Hardener: Aliphatic Amines

**Bonding technique:** 1-sided application

**Consistency:** Liquid

**Viscosity:** approx. 35.000 mPa.s., Liquid

**Solid matter:** approx. 100 %

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### STORAGE CONDITIONS

Store in tightly closed packaging in a dry, cool and frost-free place.

### PACK SIZES

15 g, 25 g, 33 g, 163 g

Note: This information is the result of carefully executed tests. This Technical Data Sheet has been prepared to the best of our knowledge to provide you with advice when gluing. We cannot be held responsible for the results or any damage suffered, as the variety of factors involved (type and combination of materials and working method) are beyond our control. Users have to carry out their own checks and trials. Liability can only be accepted for the consistently high quality of our product.