

# EPOXY QUICK SET

## CRYSTAL CLEAR FAST DUAL-COMPONENT EPOXY ADHESIVE

# UHU



### PRODUCT DESCRIPTION

Crystal clear fast dual-component epoxy adhesive.

### FIELD OF APPLICATION

Ideal for fast, strong and invisible repair of many materials, such as pottery, porcelain, glass, leather, wood, stone, metal, ceramics. Both with themselves and in combination. Not suitable for Polyethylene (PE), polypropylene (PP), PTFE and silicone rubber.

### PROPERTIES

- Fast
- Crystal clear
- Super-strong
- Universal, suitable for many materials
- Temperature resistant
- 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:** (by volume) 1:1 (other mixing ratios possible)

**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 the synthetic spatula. Apply the mixture, which at room temperature (+20°C) remains toolable for about 5 minutes, as a thin layer on one of the two materials. Assemble the material and keep it in place for 20 minutes. 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.

**Open time:** 5 mins. (Period of usability at 20°C room temperature)

**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

**Dry/Cure time:** approx. See chart:

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

### TECHNICAL PROPERTIES

**Temperature resistance:** Between -40 and +100°C (dependent on material and construction; higher temperatures may also be possible - see chart). High temperatures are not necessary for the hardening process, as hardening is exothermic (i.e. it generates its own heat). If a bond is to be subject to long-term exposure to heat, this should not exceed 100°C, although the substance can withstand short-term temperatures of up to 180°C. UHU plus schnellfest is substantially resistant to ageing and weathering. The adhesive is not affected by even extremely low temperatures.

**Chemicals resistance:** many solvents, dilute acids and alkalis. UHU plus schnellfest joins a substantially resistant to moisture and a range of solvents. Dilute acids, dilute alkalis and mineral oil have little effect on bond strength, even in the event of lengthy exposure. No universally valid data can be given as there are always many factors, such as the possibility of corrosion, duration of exposure and temperature, that affect the assembly. Some solvents, such as methylene chloride, trichloroethylene and chloroform (Warning! Precautions must be taken!), soften the adhesive over a period of time. This effect can be made use of for dissolving adhesive joints.

## TECHNICAL SPECIFICATIONS

**Appearance:** Colourless, transparent

**Chemical base:** binder: epoxy resin; hardener: polymer

**Bonding technique:** Wet adhesion

**Colour:** Transparent

**Consistency:** Medium viscosity

**Viscosity:** binder: 30.000; hardener: 15.000 mPa.s.

**Solid contents:** approx. 100 %

**Density:** approx. binder: approx. 1.18; hardener approx. 1.14 g/cm<sup>3</sup>

## STORAGE CONDITIONS

Store cool, frost-free, upstanding (nozzle upwards) and tightly closed.