

# **EPOXY ULTRA STRONG**

## UNIVERSAL STRONG DUAL-COMPONENT EPOXY ADHESIVE



#### PRODUCT DESCRIPTION

Universal strong dual-component epoxy adhesive for repairing metal, pottery, porcelain, glass, 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, 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/cm²)
- · Resistant to temperatures between -40 °C and +100 °C
- · Filling
- · Water resistant
- · Chemical resistant
- · Paintable

#### **PREPARATION**

**Working Conditions:** Only apply at temperatures between +10 °C and +35 °C. Product cures by mixing the resin and the 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 methylated spirit. Roughen smooth surfaces (sandpaper). **Tools:** Mix the components by means of the supplied mixing bowl and spatula.

#### **APPLICATION**

**Coverage:** 1 ml = approx 10 cm<sup>2</sup> at a film thickness of 1 mm **Directions for use:** 

Press out an equal amount of both components onto the enclosed mixing tray. Mix these two equal parts well with a 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. Resin and hardener must not come into contact with each other unless for usage.

**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. Use a piece of adhesive tape in order to keep the parts in place while the adhesive is curing. **Points of attention:** Close well after use. 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.

Our advice is based on extensive research and practical experience. However, in view of the large variety of materials and the conditions under which our products are applied, we assume no responsibility for the results obtained and/or any damage caused by the use of the product. Nevertheless, our Service Department is always at your disposal for any advice needed.



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#### TECHNICAL SPECIFICATIONS

Bonding technique: Chemical base: Epoxy resin Chemicals resistance: Water, oil, grease, solvents, diluted acids and alkalis Colour: Opaque, honey coloured Consistency: Liquid Density approx.: 1,1 g/cm³ Filling capacity: Very good Final bond strength (Alu): 19 N/mm² Final bond strength after: 44 hours Handling time: 6 hours Minimum temperature resistance: Maximum temperature resistance: Moisture resistance: Good Mixture ratio: 1:1 Paintability: Yes Potlife: 90 minutes Solvent free: UV resistance: Very good Viscosity: Viscosity: Medium viscosity Viscosity approx.: Good Water soluble: No	TECHNICAL SPECIFICATIONS	
Chemicals resistance:  Water, oil, grease, solvents, diluted acids and alkalis  Colour:  Opaque, honey coloured  Consistency:  Liquid  Density approx.:  Filling capacity:  Final bond strength (Alu):  Final bond strength after:  Handling time:  6 hours  Minimum temperature resistance:  Maximum temperature resistance:  Moisture resistance:  Good  Mixture ratio:  Paintability:  Potlife:  Solvent free:  UV resistance:  Very good  Viscosity:  Water resistance:  Good  Water, oil, grease, solvents, diluted acids and alkalis  Very good  Water, oil, grease, solvents, diluted acids and alkalis  Very good  Water, oil, grease, solvents, diluted acids and alkalis  Very good  Water, oil, grease, solvents, diluted acids and alkalis  Very good  Water, oil, grease, solvents, diluted acids and alkalis  Very good	Bonding technique:	1-Sided application
diluted acids and alkalis  Colour: Opaque, honey coloured  Consistency: Liquid  Density approx.: 1,1 g/cm³  Filling capacity: Very good  Final bond strength (Alu): 19 N/mm²  Final bond strength after: 24 hours  Handling time: 6 hours  Minimum temperature resistance: 40 °C  Maximum temperature resistance: Good  Mixture ratio: 1:1  Paintability: Yes  Potlife: 90 minutes  Solvent free: Yes  UV resistance: Very good  Viscosity: Medium viscosity  Viscosity approx.: 35000 mPa·s  Water resistance: Good	Chemical base:	Epoxy resin
Consistency:  Density approx.:  Filling capacity:  Very good  Final bond strength (Alu):  Final bond strength after:  Handling time:  Minimum temperature resistance:  Maximum temperature resistance:  Moisture resistance:  Moisture ratio:  Paintability:  Potlife:  Solvent free:  UV resistance:  Very good  Viscosity:  Ves  Vater resistance:  Good  Medium viscosity  Vater resistance:  Good  Good	Chemicals resistance:	Water, oil, grease, solvents, diluted acids and alkalis
Density approx.:  Filling capacity:  Final bond strength (Alu):  Final bond strength after:  Handling time:  Minimum temperature resistance:  Maximum temperature resistance:  Moisture resistance:  Good  Mixture ratio:  Paintability:  Potlife:  Solvent free:  UV resistance:  Very good  Viscosity:  Water resistance:  1,1 g/cm³  Very good  19 N/mm²  Final bond strength (Alu): 19 N/mm²  Final bond strength (Alu): 19 N/mm²  Final bond strength (Alu): 19 N/mm²  For Normal  Final bond strength (Alu): 19 N/mm²  Final bond strength (Alu): 19 N/mm²  Final bond strength (Alu): 19 N/mm²  For Normal  For Norm	Colour:	Opaque, honey coloured
Filling capacity: Very good  Final bond strength (Alu): 19 N/mm²  Final bond strength after: 24 hours  Handling time: 6 hours  Minimum temperature resistance: 100 °C  Maximum temperature resistance: Good  Mixture ratio: 1:1  Paintability: Yes  Potlife: 90 minutes  Solvent free: Yes  UV resistance: Very good  Viscosity: Medium viscosity  Viscosity approx.: 35000 mPa·s  Water resistance: Good	Consistency:	Liquid
Final bond strength (Alu): 19 N/mm²  Final bond strength after: 24 hours  Handling time: 6 hours  Minimum temperature resistance: 100 °C  Maximum temperature resistance: Good  Mixture ratio: 1:1  Paintability: Yes  Potlife: 90 minutes  Solvent free: Yes  UV resistance: Very good  Viscosity: Medium viscosity  Viscosity approx.: 35000 mPa·s  Water resistance: Good	Density approx.:	1,1 g/cm <sup>3</sup>
Final bond strength after:  Handling time:  Minimum temperature resistance:  Maximum temperature resistance:  Moisture resistance:  Mixture ratio:  Paintability:  Potlife:  Solvent free:  UV resistance:  Very good  Viscosity:  Viscosity:  Water resistance:  Good  Mixture ratio:  Yes  UV resistance:  Very good  Viscosity:  Medium viscosity  Viscosity approx.:  Good  Ghours  40 °C  C  C  C  C  C  C  C  C  C  C  C  C	Filling capacity:	Very good
Handling time:  Minimum temperature resistance:  Maximum temperature resistance:  Moisture resistance:  Moisture ratio:  Paintability:  Potlife:  Solvent free:  UV resistance:  Very good  Viscosity:  Viscosity:  Water resistance:  Good  Abours  100 °C  Good  1:1  Paintability:  Yes  90 minutes  Yes  UV resistance:  Very good  Viscosity:  Medium viscosity  Viscosity approx.:  Good	Final bond strength (Alu):	19 N/mm <sup>2</sup>
Minimum temperature resistance:  Maximum temperature resistance:  Moisture resistance:  Moisture ratio:  Mixture ratio:  Paintability:  Potlife:  Solvent free:  UV resistance:  Very good  Viscosity:  Viscosity:  Water resistance:  Good  -40 °C  -	Final bond strength after:	24 hours
resistance:  Maximum temperature resistance:  Moisture resistance:  Good  Mixture ratio:  Paintability:  Potlife:  90 minutes  Solvent free:  UV resistance:  Very good  Viscosity:  Viscosity:  Water resistance:  Good  1:1  Paintability:  Yes  90 minutes  Very good  Very good  Viscosity:  Medium viscosity  Viscosity approx.:  Good	Handling time:	6 hours
resistance:  Moisture resistance:  Good  Mixture ratio:  Paintability:  Potlife:  90 minutes  Solvent free:  UV resistance:  Very good  Viscosity:  Viscosity:  Medium viscosity  Viscosity approx.:  Good  Good		-40 °C
Mixture ratio: 1:1  Paintability: Yes  Potlife: 90 minutes  Solvent free: Yes  UV resistance: Very good  Viscosity: Medium viscosity  Viscosity approx.: 35000 mPa·s  Water resistance: Good		100 °C
Paintability:  Potlife:  90 minutes  Solvent free:  Very good  Viscosity:  Viscosity:  Viscosity approx.:  Water resistance:  Good	Moisture resistance:	Good
Potlife: 90 minutes  Solvent free: Yes  UV resistance: Very good  Viscosity: Medium viscosity  Viscosity approx.: 35000 mPa·s  Water resistance: Good	Mixture ratio:	1:1
Solvent free:  UV resistance:  Very good  Viscosity:  Medium viscosity  Viscosity approx.:  35000 mPa·s  Water resistance:  Good	Paintability:	Yes
UV resistance:  Very good  Viscosity:  Medium viscosity  Viscosity approx.:  35000 mPa·s  Water resistance:  Good	Potlife:	90 minutes
Viscosity: Medium viscosity Viscosity approx.: 35000 mPa·s Water resistance: Good	Solvent free:	Yes
Viscosity approx.: 35000 mPa·s  Water resistance: Good	UV resistance:	Very good
Water resistance: Good	Viscosity:	Medium viscosity
	Viscosity approx.:	35000 mPa·s
Water soluble: No	Water resistance:	Good
	Water soluble:	No

#### **PACK SIZES**

33 g, 163 g

### **STORAGE CONDITIONS**

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

Our advice is based on extensive research and practical experience. However, in view of the large variety of materials and the conditions under which our products are applied, we assume no responsibility for the results obtained and/or any damage caused by the use of the product. Nevertheless, our Service Department is always at your disposal for any advice needed.