EPOXY POWER

UNIVERSAL STRONG TWO-COMPONENT ADHESIVE WITH 50% BIOBASED 2C FORMULA

PRODUCT DESCRIPTION

Universal strong two-component adhesive with 50% biobased 2C formula 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, 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 190 kg/cm²)
· Resistant to temperatures between -40°C and +100°C
· Filling
· Water resistant
· Chemical resistant
· Paintable
· Odourless

PREPARATION

Working Conditions: Only apply at temperatures between +15°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 using the static mixer.

APPLICATION

Coverage: 1 ml = approx 10 cm² at a film thickness of 1 mm
Directions for use:
The surfaces to be bonded must be clean, dry and free from oil and grease. Smooth surfaces should be roughened. Break the nozzle and seal. Screw on enclosed mixer. Squeeze adhesive out of the syringe, discard the first centimeter of adhesive and apply to one side, to both sides with rough materials. Process time approximately 45 minutes at room temperature. The functional strength is reached after 6h, final bonding strength after 24 h (both at room temperature). Unscrew and dispose mixer after use. Clean syringe nozzles and seal with cap. Use second mixer for next use. Store in upright position, in a cool, dry place. Do not use at temperatures below 10 °C.
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. A controlled and constant addition of heat for a specified time ("tempering") can improve the mechanical properties of the cured resin, including its strength, hardness and toughness. Curing time depends on the temperature.

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:	1-Sided application
Chemical base:	Epoxy resin
Chemicals resistance:	Water, oil, grease, solvents, diluted acids and alkalis
Colour:	Opaque, honey coloured
Consistency:	Liquid
Density approx.:	1,07 g/cm³
Filling capacity:	Very good
Final bond strength (Alu):	19 N/mm²
Final bond strength after:	24 hours. This might vary, based on circumstances, like materials, temperature and humidity.
Handling time:	6 hours
Minimum application temperature:	15 °C
Maximum application temperature:	35 °C
Minimum temperature resistance:	-40 °C
Maximum temperature resistance:	100 °C
Moisture resistance:	Good
Mixture ratio:	1:1 by volume
Paintability:	Yes
Potlife:	45-50 minutes depending on temperature and amount of adhesive
Solvent free:	Yes
UV resistance:	Very good
Viscosity:	Thick liquid
Viscosity approx.:	27000 mPa·s
Water resistance:	Very good
Water soluble:	No

PACK SIZES

15 g,

STORAGE CONDITIONS

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

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