EPOXY METAL

STRONG, METAL COLOURED TWO-COMPONENT EPOXY ADHESIVE



PRODUCT DESCRIPTION

Strong, metal coloured two-component epoxy adhesive

FIELD OF APPLICATION

Ideal for strong repairs of metal objects which must withstand extreme conditions (forces, vibrations, (sea)water, heavy load), such as tools, car parts, engines, (motor)bikes, metal (garden) fencing and cutlery. Also suitable for sealing a small hole in a radiator. Suitable for bonding of metal (steel, aluminium, iron) together and in combination with stone, wood, concrete, and various synthetics (such as formica, polyester and bakelite). Not suitable for Polyethylene (PE), polypropylene (PP), PTFE and silicone rubber.

PROPERTIES

· Extreme strength: up to 220 kg/cm²
· Metal coloured
· Resistant to harsh conditions
· Resistant to temperatures between -40 °C and +120 °C
· Filling
· (Sea)water resistant
· Very good chemical resistance
· Can be sanded, filed, drilled and painted after curing

PREPARATION

Working Conditions: Recommended application at temperatures between +10 °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

Coverage: 1 ml = approx 10 cm² 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 45 minutes, as a thin layer on one of the two materials. Join the materials and keep them in place for 10 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.
Stains/residue: Remove wet stains immediately with warm water and soap. Cured adhesive residue can only be removed mechanically.
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.

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

Chemical base:	Epoxy resin
Chemicals resistance:	Water, oil, grease, solvents, diluted acids and alkalis
Colour:	Grey
Consistency:	Pasty
Density approx.:	1,2 g/cm^3
Filling capacity:	Very good
Final bond strength (Alu):	22 N/mm^2
Final bond strength after:	24 hours
Handling time:	12 hours
Minimum application temperature:	5 °C
Minimum temperature resistance:	-40 °C
Maximum temperature resistance:	120 °C
Moisture resistance:	Good
Mixture ratio:	1:1
Potlife:	45 min
Solvent free:	Yes
UV resistance:	Very good
Viscosity:	Thixotropic
Water resistance:	Good
Water soluble:	No

STORAGE CONDITIONS

Limited shelf life after opening.
Store cool, dry, frost-free, upright (nozzle upwards) and tightly closed.

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