



# Technical Data Sheet

## Casting resin epple 06872

Stand: 04-2021

### Description:

**epple 06872** is a two-component, solvent-free cast resin on the basis of polyurethane. The medium-viscous material cures to a soft, elastic mould and is characterized by its balanced ratio between elastic and ductile contents. **epple 06872** provides good adhesion on metals and very good adhesion on various plastics.

### Application:

Thanks to its elasticity, **epple 06872** is particularly suitable for the grouting of components subject to vibration. It protects circuit boards and electronic components against mechanical and chemical strains. **epple 06872** is applicable to protect the electronics of accelerometers (e. g. inductive sensors and eddy current sensors), which are used to evaluate the operating characteristics and conditions of motors.

### Specific properties:

**epple 06872** is characterized by its very low shrinkage, so that no tensions appear within the resin during its curing process. It provides very good adhesion to polycarbonate and polyamide.

### Legal regulations:

Accordant to RoHS (2011/65/EU and 2015/863): yes

### Application / Surface:

- The surface has to be clean and free from dust and grease.
- Decant component B into the tin of component A. Mix the two components thoroughly and homogeneously. Eventually, fill over the mixture into another, clean container and stir the material again.
- If possible, stir-up the components before use.

### Cleaning of tools:

Thinner 11

### Packaging:

Tin, pail, hobbock

### Basis / Characteristics

Components		Solvent-		Chemical Basis	
1-comp.	2-comp.	free	containing	Epoxy	Polyurethane

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### Properties of the liquid cast resin

Property	Component A	Component B	Following to standard
Viscosity	13 – 19 Pas	0.1 – 0.2 Pas	DIN EN ISO 3219
Viscosity of mixture	6 – 9 Pas		DIN EN ISO 3219
Density	1.3 – 1.4 g/cm <sup>3</sup> / 20 °C	1.2 – 1.3 g/cm <sup>3</sup> / 20 °C	DIN 53479
Mixing rate	83 parts by weight 82 parts by volume	17 parts by weight 18 parts by volume	gravimetric volumetric
Colour of mixture	black, green, blue		-
Loss on drying up to 140 °C	0 %		
Pot life	35 – 55 min		DIN VDE 0291-2
Storage	12 months in closed original containers, stored in a dry and cool but frost-free place. Ideal storage temperature: 5 – 30 °C. Please stir-up the components before use.		

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### Properties of the cured cast resin

Property	Value	Following to standard
<b>Hardness</b> (after 7 days at 20 °C) Shore-A Shore-D Pendulum hardness / König	82 – 92 33 – 43 10 – 20 s	DIN 53505 DIN 53505 DIN 53157
<b>Temperature resistance</b> (after 7 days at 20 °C)	-25 °C to +160 °C	
<b>Absorption of water</b> 20 °C / 7 days 100 °C / 30 min	0.2 – 0.4 % 0.3 – 0.5 %	ISO 62
<b>Chemical resistance</b> (after 7 days at 20 °C)	ATF-oil fuel oil tenside solution water	epple-standard

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