

Description:

epple 07149 is a two-component, solvent-free cast resin on the basis of epoxy. The medium-viscous material cures to a transparent mould with very high mechanical strength. **epple 07149** provides good adhesion to metals and various plastics, particularly PBT and PA6.

Application:

epple 07149 is used where a transparent cast resin is required. It can also be applied in larger film thicknesses to up to several centimetres and cures entirely blister-free. Thanks to its long pot life it penetrates into even complex structures. Curing time can be shortened by heat addition. **epple 07149** can be used for the grouting of optical reading heads requiring a tough cast resin.

Specific properties:

epple 07149 is characterized by its very low yellowing under uv-radiation. Tests over the period of one year with continuous uv-radiation did not lead to yellowing or changing of the surface. Also the volume shrinkage is very low, so that even volumes > 50 cm³ can be grouted with **epple 07149**.

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

Basis / Characteristics

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

Properties of the liquid cast resin

Property	Component A	Component B	Following to standard
Viscosity	2 – 4 Pas	0.02 – 0.1 Pas	DIN EN ISO 3219
Viscosity of mixture	0.5 – 1.0 Pas		DIN EN ISO 3219
Density	1.1 – 1.2 g/cm ³ / 20 °C	0.9 – 1.0 g/cm ³ / 20 °C	DIN 53479
Mixing rate	70 parts by weight 66 parts by volume	30 parts by weight 34 parts by volume	gravimetric volumetric
Colour of mixture	transparent		-
Loss on drying up to 140 °C	0 %		
Pot life	210 – 270 min		DIN VDE 0291-2
Storage	24 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
Hardness (after 7 days at 20 °C) Shore-A Shore-D Pendulum hardness / König	83 – 93 68 – 78 23 – 43 s	DIN 53505 DIN 53505 DIN 53157
Temperature resistance (after 7 days at 20 °C)	-25 °C to +150 °C	
Absorption of water 20 °C / 7 days 100 °C / 30 min	1.4 – 1.8 % 0.2 – 0.4 %	ISO 62
Chemical resistance (after 7 days at 20 °C)	water ATF-oil motor oil tenside solutions mineral acids (up to 5 %)	epple-standard

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