RECKLI®
DESIGN YOUR CONCRETE

RECKLI® Electro Resin EP

modified epoxy resin

PROPERTIES

RECKLI Electro Resin EP is an unfilled, solvent-free two-component epoxy resin with particularly long processing time, ensuring low stress curing.

APPLICATIONS

RECKLI Electro Resin EP is suitable for embedding larger or heat-sensitive objects, e. g. electronic components that must be sealed from environmental influences. Due to its special formulation, it allows dimensionally accurate casts, free of bubbles and curing without high temperature peaks as known from conventional epoxy resins.

TECHNICAL DATA

property	value	method
mixing ratio (base : hardener):	100 : 35	(according to weight)
workable temperature:	+10 °C – +50 °C	
viscosity (base, at +20 °C):	1200 mPa·s	ISO 2555
viscosity (base, at +40 °C):	320 mPa·s	ISO 2555
viscosity (hardener, at +20 °C):	110 mPa·s	ISO 2555
viscosity (hardener, at +40 °C):	60 mPa·s	ISO 2555
viscosity (mixture, at +20 °C):	500 mPa·s	ISO 2555
viscosity (mixture, at +40 °C):	190 mPa·s	ISO 2555
pot life (1000-g-mixture, +21 °C):	approx. 4 h	
density (base):	1,15 g/cm³	ISO 2811
density (hardener):	0,96 g/cm³	ISO 2811
density (cured):	1,13 g/cm³	
hardness:	approx. 77 Shore D	DIN 53505
ball impression hardness:	120 N/mm²	DIN 53456
dimensional stability under heat:	70 °C	DIN 53462
heat resistance (7 days, 100 °C):	0,34 % weight loss	
heat resistance (7 days, 150 °C):	1,10 % weight loss	
linear shrinkage:	approx. 0,01 – 0,05 %	

These data are typical guide values. They are not destined for the generation of specifications.

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SURFACE PREPARATION

The substrate must be stable, sound, dry, clean and free of oil, grease or wax. Plastics should be roughened by grinding.

PROCESSING

To achieve low stress curing, the base component (A), the hardener (B) and the mould as well are previously warmed to 40 °C. Add the hardener (B) to the base component (A) and mix them homogenously. Transfer the mixture into a second receptacle and stir it up again. Incorporated air is best removed under vacuum. When cast in the preheated mould, RECKLI Electro resin is cured at room temperature without further external heat. Depending on the boundary conditions (mixed quantity, ambient temperatur, thermal insulation, ...), the starting temperature can differ from these exemplary values. The optimum conditions should be established in a preliminary test.

CLEANING OF EQUIPMENT

For the cleaning of the tools and the equipment, use dry, absorbing cloths, if necessary RECKLI Epoxy Cleanser in addition. Immersion in solvents is not sufficient.

PACKAGING SIZES

pair of canisters: 13,5 kg;
double can: 4,05 kg | 675 g (the hardener is enclosed in the lid).

STORAGE

Store in a dry place at room temperature. RECKLI Electro Resin EP is storable for 6 months from delivery when kept in the closed original packaging at about 18 °C. Opened drums must be closed airtight right after use.

SPECIAL REMARKS

Storage at low temperatures may cause partial crystallisation of the base component, even if only parts of the container are exposed to cold. In this case, the material can be melted in the closed container at 40 – 50 °C. When mixed up, it is usable again.

GENERAL INFORMATION

For further information please also see:

„General advice for the processing of RECKLI two-component resins“.

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Protect skin and eyes from material splashes. Provide sufficient ventilation in the working place. Please consult the relevant safety data sheet and attend to the indications on the label of the package regarding the Dangerous Goods Regulation.
This pamphlet is intended solely as an application directive. It does not claim to be binding and valid for all modes of application. A preliminary test under operation conditions is highly recommended.
This pamphlet replaces all previously published pamphlets concerning RECKLI Electro Resin EP, stating them as no longer being valid.

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