

RECKLI[®] Epoxy Compound 51/30

modified epoxy resin

RECKLI

Epoxy Compound 51/30

Product 07482

Edition 01/23

PROPERTIES

RECKLI Epoxy Compound 51/30 is a solvent-free two-component epoxy resin with high reactivity and medium hardness. After curing it can easily be ground or milled. Due to its low viscosity, it is suitable for machine processing (low-pressure pumps only).

APPLICATIONS

RECKLI Epoxy Compound 51/30 is utilized as a ready-for-use casting compound for making models and ornaments in furniture and door industries. A further field of application is the manufacture of mounting aids or divider panels for non-standard recesses and gaps in the construction industry. Further addition of fillers is not recommended.

TECHNICAL DATA

property	value	method
mixing ratio (base : hardener):	5 : 1	(according to weight)
workable temperature:	+10 °C – +30 °C	
pot life (200-g-mixture at +21 °C):	approx. 30 min	
density:	1,45 g/cm ³	
ball impression hardness:	65 N/mm ²	DIN 53456
dimensional stability under heat:	38 – 40 °C	DIN 53462
heat resistance (dry heat):	+100 °C	
linear shrinkage:	0,01 – 0,05 %	
coefficient of thermal expansion:	approx. $65 \cdot 10^{-6} \text{ K}^{-1}$	

hardening progress at 21° C, d = 10 mm

ball impression hardness DIN 53456

after 1 day	58 N/mm ²
after 2 days	62 N/mm ²
after 3 days	65 N/mm ²
after 3 days (+ 8 h 75 °C)	65 N/mm ²

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

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SURFACE PREPARATION

To ensure the ease of the replicas' demoulding, an appropriate releasing agent or self-releasing moulds must be used. When applying several layers, the preceding cast should be still slightly wet. When completely cured, the surface must be roughened by grinding.

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PROCESSING

Before processing, the base component must be stirred up thoroughly. 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. Thereby the incorporation of larger amounts of air should be avoided. Once mixed, the processing of the material must be completed within the pot life (approx. 30 minutes). Mixing larger quantities decreases the processing time.

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 drums: 24 kg | 6 kg;

double can: 1 kg (the hardener is enclosed in the lid).

STORAGE

Store in a dry place at room temperature. RECKLI Epoxy Compound 51/30 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“.

SAFETY

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

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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 Epoxy Compound 51/30, stating them as no longer being valid.

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