

RECKLI[®] Epoxy OH

RECKLI Epoxy OH

Product 07075

Edition 01/23

modified two-component epoxy resin, pasty

PROPERTIES

RECKLI Epoxy OH is a pigmented, thixotropic, solvent-free two-component epoxy resin. It shows high dimensional stability under heat as well as impact- and wear-resistance. It is available in white and blue.

APPLICATIONS

RECKLI Epoxy OH is a tailored surface resin for making rigid, wear-resistant negative moulds with excellent level of detail. It is particularly suitable for the manufacture of models and block moulds in the ceramic industry.

Furthermore, it can be used for filling and levelling joints, grooves, defective spots or screw holes on a multitude of substrates, in particular timber or steel.

TECHNICAL DATA

property	value	method
mixing ratio (base : hardener):	7 : 1	(according to weight)
workable temperature:	+10 °C – +30 °C	
consistency:	pasty	
pot life (200-g-mixture at +21 °C):	20 – 30 min	
earliest loading (at +21 °C):	24 h	
full chemical and mechanical loading after:	7 – 10 days	
density:	1,5 g/cm ³	
dimensional stability under heat:	60 °C	DIN 53462
heat resistance (dry heat):	approx. 100 °C	
colour:	white or blue	

hardening progress at 21° C	hardness DIN 53505	ball impression hardness DIN 53456
after 3 hours	62 Shore D	16 N/mm ²
after 4 hours	73 Shore D	46 N/mm ²
after 5 hours	74 Shore D	64 N/mm ²
after 6 hours	76 Shore D	80 N/mm ²
after 7 hours	76 Shore D	88 N/mm ²
after 8 hours	77 Shore D	94 N/mm ²

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after 24 hours (1 day)	79 Shore D	117 N/mm ²
after 48 hours (2 days)	80 Shore D	122 N/mm ²

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 and clean. To ensure good adhesion, it must be free of oil, grease or wax. Vice versa, to enable an easy subsequent demoulding, the substrate must be sealed and covered with an appropriate releasing agent, if not self-releasing.

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 (20 – 30 minutes). Mixing larger quantities decreases the processing time.

RECKLI Epoxy OH is preferably applied with a brush in several layers. Each coating can earliest be applied after the preceding layer is sufficiently cured (50 – 70 minutes, depending on the temperature). The best adhesion is achieved if the surface is still slightly wet but not displaceable anymore, however, after 5 – 6 hours at the latest. Alternatively, sprinkle oven-dry quartz or loose glass fibres on the still wet surface to ensure sufficient adhesion.

To facilitate the control of complete and adequate coverage, especially at edges and corners, add colour paste (max. 2 %) to every second layer.

METHOD OF PROCESSING

Painting or spreading.

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

double drums: 8 kg | double cans: 1 kg;
The hardener is enclosed in the lid.

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STORAGE

Store in a dry place at room temperature. RECKLI Epoxy OH 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.

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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 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 OH, stating them as no longer being valid.