

# RECKLI<sup>®</sup> Polymer Resin EP

RECKLI Polymer Resin EP

Product 07437

Edition 01/23

**modified epoxy resin**

## PROPERTIES

RECKLI Polymer Resin EP is a transparent, solvent-free two-component epoxy resin with very low viscosity. When cured, it shows high dimensional stability under heat and compressive strength.

## APPLICATIONS

RECKLI Polymer Resin EP is used as a binder for making polymer concrete with very good mechanical properties. Its low viscosity allows high filling levels and ensures excellent processing properties. Only use oven-dry fillers, such as quartz-, chalk- or marble powder, quartz sand, gravel or lightweight fillers, for example Liapor or RECKLI Filler L.

RECKLI Polymer Resin EP is suitable as binder for the manufacture of stable backfillings of rigid moulds, especially if an early stability against bending and deformation under mechanical stress is required. For this purpose, it is mixed with oven-dry fillers, yielding an earth-moist ramming mass.

## TECHNICAL DATA

property	value	method
mixing ratio (base : hardener):	4 : 1	(according to weight)
workable temperature:	+10 °C – +30 °C	
viscosity of the mixture:	250 mPa·s	ISO 2555
pot life (200-g-mixture at +21 °C):	approx. 80 min	
full chemical and mechanical loading after:	7 – 10 days	
density:	1,08 g/cm <sup>3</sup>	
hardness:	85 Shore D	DIN 53505
ball impression hardness:	120 N/mm <sup>2</sup>	DIN 53456
dimensional stability under heat:	approx. 75 °C	DIN 53462
heat resistance (dry heat):	+100 °C	
appearance:	transparent	

## hardening progress (at 21 °C)

period	ball impression hardness (DIN 53456)
after 1 day	78 N/mm <sup>2</sup>
after 2 days	107 N/mm <sup>2</sup>

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after 5 days	120 N/mm <sup>2</sup>
after 7 days	121 N/mm <sup>2</sup>
after 7 days (+ 24 h 40 °C)	121 N/mm <sup>2</sup>

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

## SURFACE PREPARATION

For coatings or adhesions, the substrate must be stable, sound, dry, clean and free of oil, grease or wax.

## PROCESSING

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. Fillers should be preferably added to the mixture rather than to the base component before mixing. Once mixed, the processing of the material must be completed within the pot life (approx. 80 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 canisters: 10 kg | 5 kg;  
double can: 1 kg (The hardener is enclosed in the lid.)

## STORAGE

Store in a dry place at room temperature. RECKLI Polymer 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“.

## 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 Polymer Resin EP, stating them as no longer being valid.

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