

RECKLI[®] Epoxy Mortar

RECKLI Epoxy Mortar

Product 07140

Edition 12/16

resin-bonded repair and levelling mortar

PROPERTIES

RECKLI Epoxy Mortar is a solvent-free, liquid-tight, stable two-component mortar, based on epoxy resin. It shows high compressive and flexural strength as well as high chemical resistance.

APPLICATIONS

RECKLI Epoxy Mortar is suitable as a repair mortar for cementitious substrates. It can be used for repairing and filling broken off edges, holes and uneven surfaces in walls, steps or floorings, anchor holes in precast concrete parts, breaches in in-situ concrete or junctions of concrete pipes.

TECHNICAL DATA

property	value	method
mixing ratio (base : hardener):	25 : 1	(according to weight)
workable temperature:	+10 °C – +30 °C	
pot life (1000-g-mixture at +21 °C):	approx. 25 – 35 min	
earliest loading (at +21 °C):	24 – 48 h	
full chemical and mechanical loading after:	10 – 12 days	
density:	2,0 g/cm ³	
compressive strength:	60 N/mm ²	DIN 53454
flexural strength:	35 N/mm ²	DIN 53452
colour:	grey	

hardening progress (at 21 °C)

period	compressive strength	flexural strength
1 day	38 N/mm ²	26,4 N/mm ²
3 days	48 N/mm ²	31,6 N/mm ²
7 days	53 N/mm ²	34,6 N/mm ²
14 days	60 N/mm ²	35,0 N/mm ²
21 days	61 N/mm ²	35,0 N/mm ²
28 days	62 N/mm ²	35,0 N/mm ²

(prisms 4 cm × 4 cm × 16 cm, according to DIN 1164)

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

RECKLI GmbH

Gewerkenstraße 9a

D-44628 Herne

Tel +49 2323 1706-0

Fax +49 2323 1706-50

info@reckli.de

www.reckli.de

SURFACE PREPARATION

The substrate must be stable, sound, dry, clean and free of oil, grease or wax. Concrete or other cement-based substrates should have a minimum age of 4 weeks. For priming, a full coat of RECKLI Flooring Resin EP is applied by brush or by roller. To ensure a good bonding, RECKLI Epoxy Mortar is best applied after 1 to 2 hours on the fresh primer. Alternatively sprinkle oven-dry quartz sand on the wet primer, making sure it is completely covered. Excess material must be thoroughly swept off or vacuumed the following day.

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PROCESSING

Before processing, the base component has to be stirred up thoroughly. Add the hardener (B) to the base component (A) and mix them homogeneously. In order to avoid mixing errors, the material on the walls of the mixing drum must be included in the mixing process as well. Once mixed, the processing of the material must be completed within the pot life (25 – 35 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

drums/cans: 26 kg | 7,28 kg | 1,04 kg.

The hardener is enclosed in the drum in a separate bottle.

STORAGE

Store in a dry place at room temperature. RECKLI Epoxy Mortar 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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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 Mortar, stating them as no longer being valid.

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APPENDIX

CHEMICAL RESISTANCE

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In order to estimate the stability towards certain chemicals, the increase or loss of weight of a sample has been determined after prolonged immersion in the relevant medium. The data stated below refer to the assumption of chemical stability being represented by a change of weight of less than 2 % after 28 days. According to the application's characteristics, the decisive criterion might have to be set differently.

test medium	change of weight (%)		resistant
	after 7 days	after 28 days	
ammonia solution (25%)	+ 0,43	+ 1,76	yes
ammonium carbonate (5%)	+ 0,23	+ 0,85	yes
ammonium chloride (5%)	+ 0,14	+ 0,47	yes
apple juice	+ 0,38	+ 1,40	yes
brake fluid	+ 0,35	+ 0,85	yes
calcium chloride (5%)	+ 0,16	+ 0,50	yes
citric acid (5%)	+ 0,46	+ 1,50	yes
dichloromethane	decomposition (1 day)		no
edible oil	+ 0,31	+ 0,34	yes
engine oil (HD oil)	+ 0,16	+ 0,22	yes
gasoline / premium-unleaded	+ 1,27	+ 3,38	no
hydrochloric acid (10%)	+ 0,96	+ 3,37	no
hydrochloric acid (37%)	+ 4,23	+ 12,07	no
isopropanol	+ 0,24	+ 0,97	yes
orange juice	+ 0,37	+ 1,67	yes
phosphoric acid (10%)	+ 5,03	+ 14,32	no
phosphoric acid (50%)	+ 8,89	+ 35,62	no
potassium carbonate (5%)	+ 0,20	+ 0,73	yes
potassium chloride (5%)	+ 0,16	+ 0,51	yes
sodium carbonate (5%)	+ 0,14	+ 0,46	yes
sodium chloride (5%)	+ 0,19	+ 0,49	yes
sodium hydroxide (30%)	+ 0,02	+ 0,26	yes
sulfuric acid (10%)	+ 3,08	+ 9,42	no
sulfuric acid (38%)	+ 0,76	+ 2,20	no
tartaric acid (5%)	+ 1,08	+ 4,23	no
vinegar (5% acid)	+ 3,14	+ 8,54	no
waste water (Emscher)	+ 0,20	+ 0,70	yes
water/tap water	+ 0,23	+ 0,66	yes
white spirit	+ 0,13	+ 0,57	yes
xylene	+ 5,40	decomposition	no

(temperature: 21 °C; sample dimensions: 10 mm × 15 mm × 120 mm)

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