

RECKLI® Flooring Resin EP Thix

modified epoxy resin

RECKLI
 Flooring Resin EP Thix
 Product 07371
 Edition 01/23

PROPERTIES

RECKLI Flooring Resin EP Thix is a slightly opaque, thixotropic, solvent-free two-component epoxy resin. On exposure to direct sunlight or UV irradiation, the resin is gradually yellowing; however, without degradation of mechanical properties.

APPLICATIONS

RECKLI Flooring Resin EP Thix is used for the manufacture of decorative indoor floorings with coloured quartz grainings, for example in offices, stores or sales and exhibition rooms. Its slightly thixotropic consistency ensures a good wetting of the graining and prevents the binder from seeping down.

For bright grainings or for application in light-flooded rooms, RECKLI Epoxy LB is preferably to be used instead due to its higher light stability.

Mixtures of appropriate grainings with RECKLI Flooring Resin EP Thix at a resin content of approx. 10 – 12 % yield liquid tight screeds. To establish the final appearance, a preliminary test is highly recommended.

TECHNICAL DATA

property	value	method
mixing ratio (base : hardener):	3 : 1	(according to weight)
workable temperature:	+10 °C – +30 °C	
consistency of the mixture:	slightly thixotropic	
pot life (200-g-mixture at +21 °C):	approx. 40 – 50 min	
earliest loading:	24 – 48 h	
full chemical and mechanical loading after:	10 – 12 days	
density:	1,1 g/cm³	
hardness:	approx. 73 Shore D	DIN 53505
ball impression hardness:	50 – 55 N/mm²	DIN 53456
dimensional stability under heat:	40 °C	DIN 53462
appearance:	slightly opaque	

hardening progress (at 21° C)

period	Shore D DIN 53505	ball impression hardness DIN 53456
after 1 day	not measurable	not measurable

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after 3 days	63	20
after 7 days	72	47
after 14 days	74	53

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

GUIDE FORMULATIONS

A liquid-tight screed with the composition:

- 8,0 kg oven-dry sand (0 – 3 mm)
- 0,8 kg chalk powder ($d_{50} = 5,5 \mu\text{m}$)
- 1,2 kg RECKLI Flooring Resin EP Thix

yields the following mechanical properties:

compressive strength	48 N/mm ²	DIN 53454
flexural strength	36 N/mm ²	DIN 53452
density	2,04 g/cm ³	

Values of compressive strength and flexural strength of mixings with other fillers, according to DIN 53454 or, respectively, DIN 53452, can be established with the filler expected to be used by our laboratory.

SURFACE PREPARATION

For coatings or adhesions, the substrate must be stable, sound, dry, clean and free of oil, grease or wax. For priming, RECKLI Flooring Resin EP is recommended. To ensure a good adhesion, oven-dry quartz sand is sprinkled on the wet coat, making sure it is completely covered. Excess material must be thoroughly swept off or vacuumed the following day.

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. 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 (40 – 50 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: 8 kg;
double can: 4 kg | 0,8 kg (the hardener is enclosed in the lid).

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STORAGE

Store in a dry place at room temperature. RECKLI Flooring Resin EP Thix 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 Flooring Resin EP Thix, stating them as no longer being valid.