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DESIGN YOUR CONCRETE

RECKLI® Epoxy BT

pigmented epoxy resin coating, thixotropic

PROPERTIES

RECKLI Epoxy BT is a cold-curing two-component epoxy resin coating, solvent-free and slightly thixotropic. When cured, it shows good chemical and abrasion resistance.

APPLICATIONS

A field of application of RECKLI Epoxy BT in building construction is, for example, base- or wall coating in garages, workshops or factory buildings. In civil engineering, it is suitable for coating pipes, shafts, retention basins or, particularly, separators for light liquids according to prEN 858-1.

TECHNICAL DATA

property	value	method
colour:	grey (standard)	
mixing ratio (base : hardener):	4 : 1	(according to weight)
workable temperature:	+10 °C – +30 °C	
pot life (200-g-mixture at +21 °C):	55 – 60 min	
earliest loading (at +21 °C):	24 – 30 h	
full chemical and mechanical loading after:	10 – 12 days	
density:	1,32 g/cm³	
hardness:	74 Shore D	DIN 53505
ball impression hardness:	120 N/mm²	DIN 53456
König pendulum hardness:	120 s	DIN 53157
Buchholz indentation resistance:	144	DIN EN ISO 2815
Erichsen impact resistance:	› 4 Nm	ISO 6272
scratch resistance:	› 50 N	ISO 1518
adhesive strength (on steel):	› 6 N/mm²	ISO 4624
adhesive strength (on concrete):	› 2 N/mm²	ISO 4624

These data are typical guide values. They are not destined for the generation of specifications. Information about the chemical resistance is listed in the appendix.

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

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4 weeks. A base coat with RECKLI Epoxy GS is recommended to ensure high adhesiveness and to fill defective spots and blowholes in the same working step. RECKLI Epoxy BT is best applied if the base coat is still slightly wet but not displaceable anymore, however, after 24 hours at the latest.

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. Once mixed, the processing of the material must be completed within the pot life (35 – 40 minutes). Mixing larger quantities decreases the processing time. RECKLI Epoxy BT is best applied with a brush or a roller.

CONSUMPTION

300 – 500 g/m² per application.

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

STORAGE

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

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APPENDIX

CHEMICAL RESISTANCE

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 (%) after 7 days	after 28 days	resistant
ammonia solution (25%)	+ 0,25	+ 0,53	yes
ammonium carbonate (5%)	+ 0,11	+ 0,25	yes
ammonium chloride (5%)	+ 0,09	+ 0,19	yes
apple juice	+ 0,14	+ 0,32	yes
brake fluid	+ 0,81	+ 1,58	yes
butyldiglycol acetate	+ 2,05	+ 5,22	no
calcium chloride (5%)	+ 0,16	+ 0,31	yes
citric acid (5%)	+ 0,19	+ 0,36	yes
dibasic esters	+ 3,70	+ 8,11	no
dibutyl maleate	+ 0,04	- 0,01	yes
diisobutyl phtalate	+ 0,06	± 0,00	yes
dioctyl maleate	- 0,02	- 0,10	yes
detergent mixture (EN858)	+ 0,12	+ 0,28	yes
edible oil	- 0,03	- 0,04	yes
engine oil (HD oil)	± 0,00	- 0,02	yes
2-ethylhexyl acrylate	- 0,07	- 0,02	yes
Exxsol DSP 145/160	+ 0,14	+ 0,16	yes
Exxsol DSP 60/95	- 0,05	- 0,09	yes
gasoline / premium-unleaded	+ 0,02	+ 0,04	yes
hydrochloric acid (10%)	+ 0,06	+ 0,12	yes
hydrochloric acid (37%)	+ 1,56	+ 3,65	no
isopropanol	+ 0,96	+ 2,42	no
oleic esters	+ 0,05	+ 0,01	yes
orange juice	+ 0,13	+ 0,37	yes
phosphoric acid (10%)	+ 0,44	+ 1,02	yes
phosphoric acid (50%)	+ 3,40	+ 8,12	no
potassium carbonate (5%)	+ 0,15	+ 0,28	yes
potassium chloride (5%)	+ 0,16	+ 0,25	yes
rapeseed oil methyl ester	- 0,01	+ 0,01	yes
sodium carbonate (5%)	+ 0,16	+ 0,31	yes
sodium chloride (5%)	+ 0,12	+ 0,27	yes
sodium hydroxide (5%)	+ 0,19	+ 0,34	yes

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sodium hydroxide (30%)	+ 0,02	+ 0,04	yes
sulfuric acid (10%)	+ 0,31	+ 0,63	yes
sulfuric acid (38%)	+ 0,10	+ 0,24	yes
tartaric acid (5%)	+ 0,11	+ 0,25	yes
VEO VA 10	± 0,00	- 0,06	yes
VEO VA 11	± 0,00	- 0,08	yes
VEO VA 9	± 0,00	- 0,05	yes
vinegar	+ 1,07	+ 2,35	no
vinyl acetate	small cracks	large cracks	no
water/tap water	+ 0,13	+ 0,25	yes
white spirit	+ 0,15	+ 0,34	yes
xylene	+ 6,57	+ 16,89	no

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

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