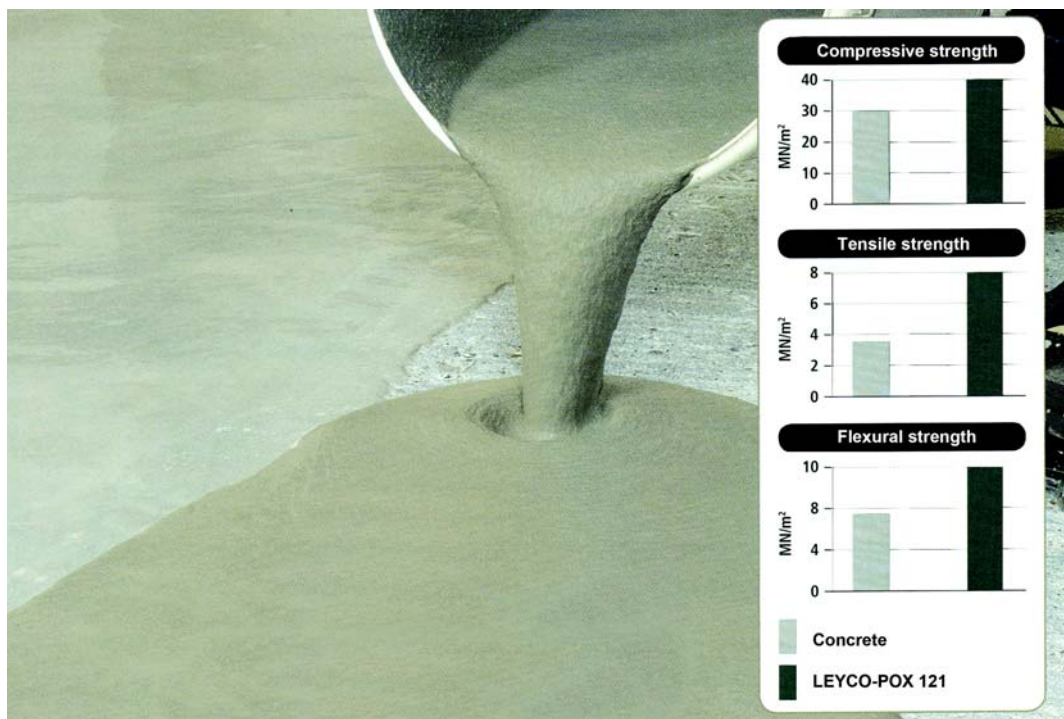


LEYCO®-POX121

NON-SLIP, SELF-LEVELLING EPOXY RESIN FLOOR COATING AND FLOOR TOPPING

Product Description

LEYCO®-POX121 is manufactured according to MIB-R specifications. LEYCO®-POX121 is a 2 or 3 component solvent-free, pigmented, self-levelling floor coating based on epoxy resins.



Uses

- As free-flowing self-levelling pigmented floor coating system for cementitious or metallic substrates, to provide a surface with very good resistance to mechanical stress and chemical attack. The coating resists penetration of oils, solvents, liquids and most chemicals.
- As a three-component solvent-free pigmented self-levelling mortar screed, based on LEYCO®-POX121 epoxy system to form a dense, non-slip, abrasion-resistant self-levelling floor surfacing of 3 - 4 mm thickness for workshops and production areas. Particularly suitable in „wet“ processing areas, e.g. food industry, beverage industry, bottling plants, dairies, meat processing plants, garages etc.

Advantages

- Simple application - self-levelling
- No priming required
- Solvent-free - no special ventilation required
- Complete system and high early strength
- Uniform surface - non-slip, non-skid

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- Good chemical resistance
- Excellent abrasion resistance - no maintenance
- Non-toxic
- Fulfils safety regulations in food industry when cured

Technical Data

General Information

Water absorption	DIN 53 495	-3l-23 °C-21d0,8%
Linear shrinkage	Rili-DASt	1,09 mm/m
Shore-hardness	DIN 53 505	87D
Tensile Strength	DIN 53 455	26,0 Mpa
Flexural Strength	DIN 53 455	3,0 Mpa
E-Modulus	DIN 53 457	3500 Mpa
Tensile Strength	DIN 53 452	59,0 Mpa
Compres. Strength	DIN 1048	98,0 Mpa

Density (at 23°C)

1,47g/ml (DIN 51757)

Mixing ratio (by weight)

A:B = 9:2

Stock life

Temp.	Stock life
at 10 °C	90 min.
at 23 °C	40 min.
at 30 °C	20 min.

Storage/Shelf life

The ideal condition is a cool and dry store.

Viscosity (at 23 °C)

8mm / 23 sec.

Application

LEYCO-POX121 should be brush or spray applied to the prepared surface. It should be worked well into the surface until the whole area is uniformly wet.

LEYCO®-POX121 can be supplied with a special slow or fast curing hardener. to obtain anti-skid surface, fine quartz sand 0–0.3 mm diam. should be sprinkled onto non-cured LEYCO®-POX121 coating. LEYCO®-POX121 non-shrink self-levelling grout is produced by mixing 1 part by wt of LEYCO®-POX121 and 4 parts by weight of LEYCO-KS or suitable quartz sand mixtures.

General information

Min. temp. for application	12 °C
Max. time between coats (at 23 °C)	8-24 hrs
Light traffic use after (at 23 °C)	24 hrs
Full traffic use after (at 23 °C)	7 days

Dosage

The entire contents of Hardener (Comp. B) should be poured into Resin (Comp. A) and the two components thoroughly mixed. Reduce wastage by not making up more than can comfortably be applied within the pot life.

Surface Conditions

The substrate must be firm, clean, dry and free from all contamination. All loose particles and excess laitance should be removed by mechanical or chemical methods

Method of application

Examples for application:

- 1.0 Coating smooth 0.5 – 2 mm
- 1.1 Prime with LEYCO®-POX101 (250 g/m²)
- 1.2 Coat with LEYCO®-POX121 (1.5 kg/m²)
- 2.0b Coating smooth 2 – 4 mm

- 2.1b Prime with LEYCO®-POX101 (250 g/m²)
- 2.2b Coat with LEYCO®-POX121 mixed with quartz sand 0.1 – 0.3 mm dia. mixing ratio 1 : 0.8. Cons. approx. 1.7 kg/m²/mm
- 3.0 Coating anti-skid 2 – 4 mm
- 3.1 Prime with LEYCO®-POX101 (250 g/m²)
- 3.2 Coat with LEYCO®-POX121 mixed with quartz sand 0.1 – 0.3 mm dia; mixing ratio 1 : 0.8
- 3.3 Sprinkle fresh coating with quartz sand 0.7 – 1.2 mm dia. Consumption approx. 3 – 4 kg/m²
- 3.4 Top sealing with LEYCO®-POX121. Consumption 0.6 – 1 kg/m² (depending on required roughness)

Limitation

LEYCO®-POX121 mortar can be applied after concrete is 28 days old, and moisture content is 3 %.

Cleaning

Tools and equipment should be cleaned with LEYCO®-CLEANER+THINNER immediately after use.

CHEMICAL RESISTANCE table for LEYCO®-POX121

Test carried out at 20 °C, results after 1 year

Acids

Hydrochloric acid	up to 20 %	x
Nitric acid	up to 10 %	x
Sulphuric acid	up to 20 %	x
Phosphoric acid	up to 20 %	x
Formic acid	up to 2 %	x
Acetic acid	up to 3 %	x
Lactic acid	up to 3 %	x
Tannic acid	up to 10 %	xo

Aqueous solutions

Phenol	up to 1 %	x
Formaldehyde	up to 20 %	x
Sodium sulphite	up to 20 %	x
Common salt	saturated	x
Sod	saturated	x
Glauber salt	saturated	x
Magnesium chloride	saturated	x
Calcium chloride	saturated	x
Seawater		x
Alkyarenesulphonate		x
Water		x

Lyes

Sodium hydroxide solution	up to 50 %	x
Potassium hydroxide solution	up to 50 %	x

Solvents

Petrol		x
Heating oil		x
Form oil		x
Hydraulic oil		x
Kerosene JP 1		x
Kerosene JP 4		x
Skydrol 500 P		x
Methanol		xo
Ethanol	up to 96 %	xo

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Propanol	x
Butanol	x
Acetone	xo
Methyl ethyl keton	xo
Ethyl acetate	xo
Ethyl glycol acetate	xo
Benzol	xo
Toluol	xo
Xylol	xo

KEY:

x = no changes, xo = colour change and/or blistering; resistant to loads for short time periods

Safety Instructions

Safety precautions

Gloves, barrier cream or protective clothing should be used. Prolonged skin contact may cause irritation. If accidentally splashed into eyes, flush with plenty of water and seek medical attention immediately.

Legal notes

Whilst information and/or specification contained herein is to the best of our knowledge true and accurate, and is based on many years experience, we cannot accept any liability either directly or indirectly arising from the use of our products, whether or not in accordance with any advice, specification or recommendation given by us, as we have no direct or continuous control over how or where our products are applied.

LEYDE-PRODUCTS are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale. 05.10.2011