

LEYCO®-POX129

HIGHLY CHEMICAL RESISTANT EPOXY COATING

Product Description

LEYCO®-POX 129 is a 2- and/or 3-component solvent-free, pigmented, self-levelling epoxy resin system with formulated amine hardener.

For higher built-up floors, graded quartz sand aggregates up to 0.7 kg of the thoroughly mixed component A and B can be added.

Uses

LEYCO®-POX129 is used as a maintenance coating system for protection of structural steel, concrete, equipment and tank exteriors in chemical and food plants, breweries, paper mills and other industries with corrosive conditions.

Advantages

Excellent protection for equipment subjected to impact, abrasion, detergents, water, steam and oils. LEYCO®-POX129 coatings are easy to clean and maintain. LEYCO®-POX129 has many uses in dairy, bottling, canning and similar plants. For protection of floors with spillage of mild acids, alkalis, salts and solvents.

Technical Data

CHEMICAL RESISTANCE TABLE FOR LEYCO®-POX129

ACIDS:

Hydrochloric acid	up to 36%	x
Nitric acid	up to 20%	x
Sulphuric acid	up to 60%	x
Phosphoric acid	up to 30%	x
Formic acid	up to 5%	x
Acetic acid	up to 10%	x
Lactic acid	up to 5%	x
Tannic acid	up to 10%	xo

Aqueous solutions:

Phenol up to 2%		x
Formaldehyde	up to 20%	x
Sodium sulphite	up to 20%	x
Common salt	saturated	x
Soda saturated		x
Glauber salt	saturated	x
Magnesium chloride	saturated	x
Magnesium phosphate	saturated	x
Calcium chloride	saturated	x
Calcium hydroxide	saturated	x

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Seawater	x
Alkyl Rene sulphonate	x
Fatty alkyl sulphate	x
Water	x

LYES:

Sodium hydroxide	
solution	up to 50% x
Potassium hydroxide	
solution	up to 50% x
Ammonia	up to 20% x

SOLVENTS:

Petrol	x
Gasoline	x
Heating oil	x
Form oil	x
Brake fluid	x
Hydraulic oil	x
Kerosene JP 1	x
Kerosene JP 2	x
Skydrol 500 P	x
Methanol	xo
Ethanol	up to 96% xo
Ethanol	up to 70% x
Propane	x
Butane	x
Acetone	xo
Methyl ethyl ketone	xo
Ethyl acetate	xo
Ethyl glycol acetate	x
Benzol	xo
Toluol	x
Xylol	x
Chem. defrosting agents	
IPA: glycol = 2:1	x

KEY:

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

General Information

Curing times at 23 °C

Over coating: 8-24 hours

Fully cured: 7 days

Volume shrinkage: 2 %

Linear shrinkage: 0.2 %

Comp. strength: approx. 90 N/mm²

Tensile bond str.: approx. 35 N/mm²

Density

at 23 °C 1,45 g/ml

Mixing ratio

by weight A:B=5:3

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Stock life

Temp. Stock Life

at 10 °C 100 min

at 23 °C 50 min

at 30 °C 25 min

Storage/Shelf life

The ideal condition is a cool and dry store

Viscosity

DIN 6mm 200 sec.

Application**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.

Smooth concrete must be etched or sandblasted.

Recommended primer for surface:

Concrete: LEYCO®-POX101

- a) Thoroughly mix comp. A + B.
- b) Mix comp. A + B and add special silica filler or selected quartz sand.

Method of application

1.0 For concrete substrate application with trowel

- a) Apply LEYCO®-POX129 onto substrate and spread. Work down with pike roller to guarantee thickness and remove entrapped air.
- b) Apply LEYCO®-POX129 self-levelling mortar by level indicator and/or by roller squeegee to ensure uniform thickness and remove entrapped air.

1.1 Preparation of surface - as described above. Do not apply coating unless concrete has cured for at least 28 days.

1.2 Prime with LEYCO®-POX 101, approx. 200 - 400 g/m², acc. to quality of surface.

1.3 Coating smooth 0.5 - 2 mm. Coat with LEYCO®-POX129 -1,5kg/m²/mm

1.4 Coating smooth 2 - 4 mm. Coat with LEYCO®-POX129 mixed with quartz sand 0.1 - 0.7 kg, mixing ratio 1:0.3. Consumption approx. 1.7 kg/m²/mm.

1.5 Coating anti-skid 2-4 mm. Coat with LEYCO®-POX129 mixed with quartz sand 0.1 - 0.3 mm dia, mixing ratio 1:0,5. sprinkle fresh coating with quartz sand 0,7 - 1,2 mm dia. consumption appr. 4 kg/m². top sealing with LEYCO®-POX 129. consumption 0,6 - 1 kg/m² (dep. on required roughness).

Cleaning

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

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

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