

# LEYCO<sup>®</sup>-POX129

## HIGHLY CHEMICAL RESISTANT EPOXY COATING

### Product Description

LEYCO<sup>®</sup>-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<sup>®</sup>-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<sup>®</sup>-POX129 coatings are easy to clean and maintain. LEYCO<sup>®</sup>-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<sup>®</sup>-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/mm <sup>2</sup>
Tensile bond str.:	approx. 35 N/mm <sup>2</sup>

**Density**

at 23 °C 1,45 g/ml

**Mixing ratio**

by weight A:B=5:3

**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

- Thoroughly mix comp. A + 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/m<sup>2</sup>, acc. to quality of surface.

**1.3** Coating smooth 0.5 - 2 mm. Coat with LEYCO®-POX129 -1,5kg/m<sup>2</sup>/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/m<sup>2</sup>/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/m<sup>2</sup>. top sealing with LEYCO®-POX 129. consumption 0,6 - 1 kg/m<sup>2</sup> (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**

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. 01.09.2009

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