

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/mm ² |
| Tensile bond str.: | approx. 35 N/mm ² |

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/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

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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