

# LEYCO<sup>®</sup>-POX 141

## HIGH STRENGTH, THIXOTROPIC EPOXY RESIN ADHESIVE

### Product Description

LEYCO<sup>®</sup>-POX 141 is a general purpose epoxy resin adhesive which has been formulated especially for use with concrete. It has particular advantages of bonding firmly to damp surfaces to provide high wear and chemical resistant coatings for concrete or metals.

LEYCO<sup>®</sup>-POX 141 has very strong flexural, compressive and tensile strength, greater than those of concrete.

LEYCO<sup>®</sup>-POX 141 has excellent durability, negligible shrinkage and very good resistance to weathering and chemical attack.

### Uses

LEYCO<sup>®</sup>-POX 141 is used to bond together precast concrete sections, to repair concrete units, to protect steel and concrete from chemical attack, to bond steel to concrete, to seal cracks prior to injection with low-viscosity epoxy resin and as glue for injection packers.

### Advantages

- Available in two different grades for normal and long pot life.
- Solvent-free.
- Simple application.
- Excellent adhesion to most building material.
- Highly effective on damp surfaces.
- Cures even under water.
- High tensile and compressive strength.

### Technical Data

#### General Information

Curing time at 23 °C

|                       |                            |
|-----------------------|----------------------------|
| Final curing:         | 7 days                     |
| Volume shrinkage:     | 1.0 %                      |
| Linear shrinkage:     | 0.08 %                     |
| Compressive strength: | 60-70 N/mm <sup>2</sup> 70 |
| Flexural strength:    | 20-26 N/mm <sup>2</sup> 30 |
| E-modulus:            | 12.000 N/mm <sup>2</sup>   |

#### Strength

|                          |  |
|--------------------------|--|
| a) steel on steel:       | >20 N/mm <sup>2</sup>                    |
| b) concrete on concrete: | Concrete failure 3-3,5 N/mm <sup>2</sup> |

**Appearance/Colour:** Light grey

**Consumption:** As general guide, 0.3 kg/m<sup>2</sup> should be allowed as minimum.

Consumption will vary depending on the porosity and texture of the surface and on ambient temperature.

**Density:** 1,70 g/ml

**Mixing ratio:** By weight A:B = 9:1

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## Product Data Sheet

Product No: 30.141

### Note

Material losses during mixing and application must be taken into consideration when estimating job requirements.

| Temp.    | normal   | long     |
|----------|----------|----------|
| at 05 °C | 3,5 hrs. | 1,5 hrs. |
| at 20 °C | 40 min   | 90 min   |
| at 30 °C | 20 min   | 50 min   |
| at 40 °C | -        | 25 min   |

### Storage/Shelf life

The ideal condition is a cool and dry store. (max. 20 °C) / 12 months in original containers

### Viscosity

At 23 °C pasty, ready to use

## Application

### 1. Bonding concrete sections

Apply an even coating of bonding adhesive to both prepared surfaces using a trowel. Make sure that both surfaces are saturated and move the sections together under light pressure. Remove any resin which might exude from the joint. Protect joint from agitation until resin has set.

### 2. Application as repair mortar coating or crack-sealant

Apply by trowel or spatula max. thickness is 30 mm on horizontal and 10 mm (non-sag) on vertical surfaces. On damp surfaces make sure that the adhesive is well rubbed to substrate

### Dosage

Pour the entire contents of the hardener (comp. b) into the resin (comp. a) and mix. reduce wastage by not making up more material than can be comfortably applied within the pot life.

Mix both components together (min. 2) minutes with slow speed mixer (max. 600 rpm).

With higher temperatures the pot life is shortened and when working at low temperatures pot life is longer and application becomes more difficult because of higher viscosity.

### Surface Condition

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, preferably by dry sandblasting.

### Cleaning

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

### Important Note

Complies with ASTM C881-78 Type II, Grade 2, Class B + C, DIN 4227 Part 3, Production under permanent laboratory control.

## 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.

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