

# LEYCO®-PUR 252

## 2-COMPONENT SYSTEM FOR ELASTIC SEALING OF DRY AND WATER-BEARING CONCRETE CRACKS

### Product Description

LEYCO®-PUR 252 is a ready to use two-component polyurethane system, formulated for elastic sealing of concrete cracks and other building materials in civil engineering.

LEYCO®-PUR 252 is created from the chemical reaction between the two liquid components LEYCO®-PUR 252 Comp. A and Comp. B

If the two components are mixed, an exothermic reaction begins and forms the elastic sealing material. The reaction rate can be controlled by addition of the LEYCO®-PUR 252 Cat2.

### Features

- Free of solvents and filler
- Hydrolysis
- Very good flexibility
- Low viscosity
- Physiologically harmless

### Application

The LEYCO®-PUR 252 is developed for the elastic sealing of cracks in concrete and other building materials in civil engineering and the backfilling and sealing of wet cracks and voids. If water-bearing cracks should be sealed, LEYCO®-PUR 252 combined with the water stop system LEYCO®-PUR 251 is to be used.

LEYCO®-PUR 251 Comp. A and Comp. B is injected into water bearing cracks and react spontaneously in contact with the water and form a rigid foam. Then LEYCO®-PUR 252 is injected

### Processing

Although LEYCO®-PUR 252 is a two-component system, it can be used as a single component system. Both methods are described below.

The components should have the same temperature of the surrounding ambient to avoid condensation.

#### As a single component:

1. The required amount of LEYCO®-PUR 252 Comp. B and LEYCO®-PUR 252 Comp. A is added together.
2. The mixing is carried out until the compound becomes an apparent homogeneous colored mixture, which takes about 2 minutes.
3. The mixture can then be processed with a one comp. pump. The pot life is about 45 minutes at 20°C; this must be taken into account during processing. Therefore not more material should be mixed, than it can be applied in time
4. After each injection procedure the pump must be cleaned with a solvent.

#### As a two component:

If LEYCO®-PUR 252 is used as a two component system, for injection a two-component mixing machine is used. Because of the low viscosity of the two components, the blending machine must be

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## Product Data Sheet

Product No: 31.252

equipped with a static mixer. The main advantage of the two- component processing is the ability to control the reaction rate. By adding LEYCO®-PUR 252 Cat2, the setting time can be determined. In the diagram below the setting time depending on the amount of the catalyst at a temperature of 20°C is shown.

## Processing

1. The setting time, if necessary is determined by the percentage of LEYCO®-PUR 252 Cat2 used.
2. LEYCO®-PUR 252 Cat2 is added and mixed together with LEYCO®-PUR 252.
3. Following the two components are connected to the dispenser, so that the injection can be started.
4. After the injection procedure, the pump must be cleaned with a solvent.

## Mixing ratio:

|                       | Weight units | Volume units |
|-----------------------|--------------|--------------|
| LEYCO-PUR 252 Comp. A | 100          | 100          |
| LEYCO-PUR 252 Comp. B | 58           | 50           |

## Response/reaction:

Cup test

Component temperature: 20 °C  
 Setting time: 45-60 minutes

## Characteristics:

| LEYCO®-PUR 252                         | Comp. A   | Comp. B   |
|--|-----------|-----------|
| Density by 20 °C:<br>kg/m <sup>3</sup> | 1040-1060 | 1225-1235 |

## Viscosity of the mixture:

|           |             |
|-----------|-------------|
| at 8 °C:  | 400-600 mPa |
| at 15 °C: | 250-350 mPa |
| at 25 °C: | 150-250 mPa |

|                    |              |            |
|--------------------|--------------|------------|
| Appearance:        | Yellow Green | Dark Brown |
| Storage stability: | 6 months     | 12 months  |

## Storage/Shelf life:

Dry and at a temperature between 15-25 °C in sealed or closed containers.

Opened or used drums and containers should be sealed/closed immediately after use.

LEYCO-PUR 252 Comp. A is hygroscopic and absorbs moisture from the air. The component B reacts with the humidity and must be protected from frost.

If drums or containers are stored for a long time, it is necessary to mix the contents before use.

## Safety Instructions

### Safety precautions

Contact with eyes and skin and the respiratory system with reaction vapors must be avoided, the protection and safety measures must be applied according to the instructions in our safety data sheets.

### 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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