

# LEYCO®-FLEX 10

## ROOF SEALING COMPOUND BASED ON BITUMEN-LATEX EMULSION

### Product Description

The thytrophic bitumen latex waterproofing compound is used for new waterproofing of new roofs and for maintenance of flat roofs and for sealing of balconies, terraces, underground car parks against moisture. The water born product is vapour permeable and can be applied on still humidity carrying surfaces

### Uses

The bitumen latex emulsion can be also used for the sealing against ground moisture on floor coverings as well as on walls of ground structures exposed to soil.

### Advantages

LEYCO®-FLEX 10 has the following outstanding properties:

- High application safety by specific reactions of both components
- Non-sag, can be applied on vertical areas.
- High elastic and crack bridging.
- Very good resistance to heat.
- Flexibility and high elongation even at cold temperatures
- Very good resistance to aging.
- As water born product can be applied on moist sub-strata
- Solvent-free and, therefore no odour and friendly to environment.
- Good bonding property to bitumen and mineral surfaces
- No odour, can be applied indoors
- Resistant to aqueous solvents, mild acids, salts, lime, cement and more.

### Technical Data

#### Properties of the dry membrane

**Softening point** : R & B of solid body approx. 105 °C

**Heat resistance**: No dripping (in accordance with AIB, appendix I, at 80 and 100 °C, 2 mm dry layer thickness, 7 and 12 days)

**Resistance to cold**: No cracks by stretching (in accordance with AIB, appendix I, at 0 °C, – 5 °C and –10 °C, 2 mm dry layer thickness)

#### Water permeability

Resistant to non pressing water in accord. with AIB, appendix I, at 0,5 bar, 8 h)

#### Packaging

10 and 25 kg metal container

#### Storage / Shelf life

Can be stored in original sealed container for at least 9 months. Already opened tins can be stored if the foil is replaced on the material and if the tins are well reclosed. Must be protected from frost and direct sunshine or extreme heat. LEYCO®-FLEX 10, which has already been mixed with LEYCO®-PLAST FIX, catalyst cannot be stored or re-used.

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**Product Data Sheet**

**Application**

At first the bitumen emulsion will be mixed shortly in its container by a slow rotating electric stirrer. Subsequently the catalyst LEYCOPLAST-FIX is added. Both components will be mixed by the agitator until a homogenous mass had been created. Depending on the agitator a mixing time of 2-3 minutes will be sufficient. The application time is approx-. 1 hour at a material temperature of 20 °C. Higher temperatures reduce, lower temperatures increase the application time.

**Surface Conditions**

Substrate: Building areas where LEYCO®-FLEX 10 shall be applied must be sound, even, free of honey combs and any contamination. Non-closed hollows, which are bigger than 5 mm, as i. e. mortar joints, open vertical and horizontal joints or break outs have to be closed with a suitable mortar.

Bubbles in the bitumen roof sheeting's have to be cut off and have to be sealed correctly. For good bonding to the substrate, for old and new roof sheeting's or metal sheets use primer such as LEYCO®-TEKT2 (solvent based) or LEYCO®-TEKT1 (solvent free) if necessary.

**Method of application**

LEYCO®-FLEX 10 is applied in at least 2 layers, with or without glass fibre mesh as reinforcement, by brush, roller, squeegee or similar. Subsequent coats are only to be applied after complete drying of the first applied seal coat depending on ambient temperature and humidity drying needs 1-3 days. The sealing coat is dry when completely tack free. At flat roof applications slate dust or reflective coat can be applied to increase UV-resistance or surface temperature

**Theoretical material consumption**

| Sealing ways                          | Application   | wet layer thickness of each coat |
|---------------------------------------|---|----------------------------------|
| <b>Sealing of flat roofs</b>          |   |                                  |
| Roof fall >3 °                        | at least 2 layers   | 1,5 kg/m <sup>2</sup> each       |
| <b>Maintenance of flat roofs</b>      |   |                                  |
| Roof fall > 3°                        | at least 2 layers   | 1,5 kg/m <sup>2</sup> each       |
| Roof fall > 1,5 ° < 3 °               | at least 2 layers<br>with glass Mesh  | 1,5 kg/m <sup>2</sup> each       |
| <b>Protection layer at flat roofs</b> | approx. 1 kg/m <sup>2</sup> LEYCO®-FLEX 10<br>covered with 4-6 kg/m <sup>2</sup> crushed slate 1/3 mm |                                  |

Using glass fibre mesh the tensile and break strength is increased, but more important is the control of quantity of LEYCO-FLEX 10 applied. Especially at the forming of culverts and at wall junctions.

| Sealing   | Application       | wet layer thickness of each coat |
|---|-------------------|----------------------------------|
| Balconies and terraces  | at least 2 layers | 1,5 kg/m <sup>2</sup> each       |
| <b>Between sealing and bridging a separation has to be placed, i. e. PE foil.</b> |                   |                                  |
| Against ground moisture   | at least 2 layers | 1,5 kg/m <sup>2</sup> each       |
| Non pressing water  | at least 2 layers | 1,5 kg/m <sup>2</sup> each       |

**Cleaning**

For better cleaning of the working equipment you have to wet them before the application and right after the application you have to clean them with water. Use instead commercial solvents or petrol; at skin contact hand washing paste.

**Legal notes**

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