

# LEYCOPLAST®

## COLD APPLIED ELASTIC and CRACK BRIDGING, SEAMLESS WATER PROOFING SYSTEM

### Product Description

LEYCOPLAST is a repair friendly material, allowing fast easy repair unlike conventional roofing systems where the whole roof has to be removed to solve the problem of leaks. Using LEYCOPLAST, leaks are easy to identify because LEYCOPLAST bonds to the concrete and, as a result, water can only penetrate where the LEYCOPLAST has been punctured. Repair work is completed in minutes by applying a coat of LEYCOPLAST to the problem area.

### Uses

#### Underground Engineering:

- Foundation Walls
- Cellars
- Capped Conduits
- Telecommunication Shafts
- Tunnel and Shaft Construction
- Bunkers
- Underground Garages
- Reservoirs and Tanks

#### Overground Engineering:

- Flat Roofs
- Roof Restoration
- Roof Connections
- Attics and Domes
- Ventilators and Sheds
- Balconies and Terraces
- Wet Rooms and Baths
- Silos

#### Hydraulic Engineering:

- Sandwich Construction
- Retaining Walls and Abutment

#### Marine Engineering:

- Bridges
- Retaining Walls

### Advantages

- Single component therefore eliminates mixing errors.
  - Can be brushed on and produces a complete sealed and seamless waterproofing film.
  - Adheres very well to any horizontal or vertical substrates like wood, mortar, paperboard, concrete, masonry, plastic, metal etc.
  - Adheres also to moist substrates, thus it can be applied after rain or on fresh concrete.
  - Dries rapidly, depending on atmospheric temperature and humidity.
  - Remains highly elastic, more than 900% extension and contraction ability, is also temperatureresistant, even under extreme cycling of temperature.
  - Is permeable to vapour and can also be used on damp surfaces.
  - Its resistant to aggressive industrial gases and the effects of smoke.
  - Is cold and easy to apply with brush or sprayer.
  - Saves considerable expenses. Simple application, which means higher efficiency with the same amount of work.
- Usually 2 men can produce 300 - 400 m<sup>2</sup> per day.
- Is absolutely waterproof and has all the advantages of the sheeting without having the disadvantages encountered when repair is necessary.

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## Product Data Sheet

Product No: 07.010

## Application

### General information

1) The structural deck is first primed with a coat of LEYCOTEKT-1 at a rate of 150 - 200 g/m<sup>2</sup>. LEYCOPLAST is applied in two layers to the roof at a rate of 3 kg/m<sup>2</sup>.

2) CLOSED CELL INSULATION SHEET is applied in the second or last coat of LEYCO-PLAST. This results in a permanent bond between the CLOSED CELL INSULATION SHEETS and LEYCOPLAST and the roof deck.

### Application:

- LEYCOPLAST should be stirred well before use.
- All surfaces must be firm and thoroughly cleaned from loose particles, oil and grease. Holes must be filled, and masonry joints must be flush-jointed.
- Apply a primer coat of LEYCOTEKT-1 at the rate of 150 - 200 g/m<sup>2</sup> to the surface according to porosity and dampness of the surface and let dry for one or two hours before subsequent application.
- Apply the required quantity of LEYCOPLAST in two or more layers, according the requirements, using brushes or special designed sprayer for thixotropic coatings. To facilitate the application, LEYCOPLAST is to be diluted with 10 - 20 % of water.
- And then immediately added to the LEYCOPLAST and mix thoroughly.
- Each coat is to be applied about 6 hours after the previous one, or when it is hard enough to walk on.
- In order to make the product dry faster and to eliminate surface tackiness so that it can be walked on sooner, LEYCOPLAST could be mixed with about 1 % of cement, i.e. 200 g per 20 kg of LEYCOPLAST. The 200 g of cement are to be premixed with about 0.5 l of water and stirred until free from lumps.
- To obtain a better bond between the LEYCOPLAST final coat and the successive plastering layers, ceramic tiles etc. may be sprayed with sand before drying (as mechanical key).
- For effective waterproofing for the connection between walls and floors, angle fillets are essential. LEYCOPLAST is to be mixed with fine filler, e.g. fine quartz sand, to form high quality sealing mortar for these angle fillets (mixing ratio: 1 part by wt. LEYCOPLAST, 2 -parts by weight cement, 3 parts by wt. quartz sand).
- In sub-ground engineering, two or more LEYCOPLAST coats are used. The total coating thickness depends on the local water pressure (for additional information, please consult our Technical Department).
- LEYCOPLAST should always be applied to the pressured surface. Where LEYCOPLAST has to be applied from the inside, e.g. tunnel or shaft construction, a counter pressure layer is required.
- In parts of buildings exposed to considerable movements such as expansion joints, it is necessary to incorporate fiber glass, jute or felt sheets between two thick LEYCOPLAST coatings over these parts.

### Cleaning

Tools and equipment should be cleaned with water immediately after use.

### 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 these 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. 13.12.2011