

LEYCOPLAST®

ELASTIC, CRACK BRIDGING, COLD APPLIED SEAMLESS WATER PROOFING SYSTEM

Product Description

LEYCOPLAST is a friendly repair 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 m² per day.
- Is absolutely waterproof and has all the advantages of the sheeting without having the disadvantages encountered when repair is necessary.

LEYCOCHEM-IRAQ Baghdad

Tel.: 0750-4344200, Tel.:0770-8748222, Tel.:0781-3802151

Email: sales.leycochem.iraq@leyde.com

Email: admin.leycochem.iraq@leyde.com

www.leyde.com

LeycoChem LEYDE GmbH Germany

Industriestrasse 155

P.O. Box 501627

D-50999 Köln/Cologne

Tel.:+49(0)2236-96600-0

Fax:+49(0)2236-96600-10

Email: leycochem@leyde.com

Technical Data

General Information

LEYCOPLAST is a joint-free liquid and cold applied water proofing material with additional special chemicals which conforms to the standard specifications of the German Association of Professional Roofers (Zentralverband des Deutschen Dachdeck-handwerks).

LEYCOPLAST hardens into a shiny, black rubber-elastic membrane which can easily span cracks in roofs, tanks, basements, balconies, foundations etc., and protects building elements against water and dampness. **LEYCOPLAST** is a thixotropic, liquid, cold applied waterproofing coating to be used directly as it comes from the container. It contains no solvents, and thus it can be used safely in closed rooms. **LEYCOPLAST** can be used on horizontal and vertical faces of all building materials, such as dry and damp primed concrete, masonry, asphalt, metal and plastics. Such surfaces must, however, be free from fats, oils, grease, loose particles, etc.

LEYCOPLAST dries by evaporation and seeping of water into the material to which it is applied. The time needed for drying depends on the nature of the surface, the temperature and relative humidity of the air. In warm climates, one coat of **LEYCOPLAST** will dry within 6 - 8 hours, so that two coats can be applied within 12 hours.

LEYCOPLAST is waterproof but permeable to vapour so that it can be applied to wet surfaces, for example to fresh or wet concrete. It remains stable within a temperature range from - 25 °C to + 100 °C. It has excellent long term aging stability and high resistance to UV-radiation and ozone. It resists all chemical actions normally occurring in building structures. **LEYCOPLAST** has high expansion and contraction properties of 300 to 900 %, depending on the film thickness to bridge surface hairline crackings.

LEYCOPLAST can be used to glue foamplates, styropor, foam, glass, cork, etc. to the surfaces which can absorb water. It can also serve to glue gravel particles.

LEYCOPLAST is applied in 1 to 3 coats, depending on the roughness of the surface and the degree of insulation required. It can also be mixed with a fine filler to form sealing mortar for the joint and angle between floors and walls.

LEYCOPLAST is used as a waterproofing layer for accessible roofs under a protective layer of gravel, concrete, tiles or concrete plates. For non accessible roofs a protective coat of **LEYCOTEKT SILVER** is sufficient.

The **INVERTED ROOFING CONCEPT**, in which thermal insulation boards are laid over the waterproof membrane, is now widely accepted as an excellent solution for flat roofs.

The waterproof membrane is protected from:

- temperature changes (daily and seasonal)
- freeze-thaw cycling
- degradation caused by UV-radiation
- mechanical damage caused during construction, maintenance or use

Characteristics

- The insulation boards can be laid on damp surfaces.
- **CLOSED CELL SHEETS** are applied to the freshly laid second **LEYCOPLAST** coating. When dry, this produces a longlasting bond between the concrete, waterproof membrane and the thermal insulation. No additional forms of mechanical bonding are required, which removes the danger of mechanical damage.
- The **INVERTED ROOFING SYSTEM** has a closed cell construction resisting moisture absorption in order to maintain long-term thermal insulation value and high compressive strength, and the **LEYCOPLAST** acts as both a waterproof membrane and a bonding agent. Because **CLOSED CELL SHEET** is resistant to absorption and the bonding action of the **LEYCOPLAST**, no dampproof course is required.

LEYCOCHEM-IRAQ Baghdad

Tel.: 0750-4344200, Tel.:0770-8748222, Tel.:0781-3802151

Email: sales.leycochem.iraq@leyde.com

Email: admin.leycochem.iraq@leyde.com

www.leyde.com

LeycoChem LEYDE GmbH Germany

Industriestrasse 155

P.O. Box 501627

D-50999 Köln/Cologne

Tel.:+49(0)2236-96600-0

Fax:+49(0)2236-96600-10

Email: leycochem@leyde.com

Product Data Sheet

Product No: 07.010

Storage/Shelf life

6 MONTHS IN A COOL AND DRY STORE

Application

General information

1) The structural deck is first primed with a coat of **LEYCOTEKT-1** at a rate of 150 - 200 g/m². **LEYCOPLAST** is applied in two layers to the roof at a rate of 3 kg/m².

2) **CLOSED CELL SHEET** is applied in the second or last coat of **LEYCO-PLAST**. This results in a permanent bond between the **CLOSED CELL 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/m² 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 wt. 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. 01.02.2010

LEYCOCHEM-IRAQ Baghdad

Tel.: 0750-4344200, Tel.:0770-8748222, Tel.:0781-3802151

Email: sales.leycochem.iraq@leyde.com

Email: admin.leycochem.iraq@leyde.com

www.leyde.com

LeycoChem LEYDE GmbH Germany

Industriestrasse 155

P.O. Box 501627

D-50999 Köln/Cologne

Tel.:+49(0)2236-96600-0

Fax:+49(0)2236-96600-10

Email: leycochem@leyde.com