

# LEYCO<sup>®</sup>-PLAST AC

2-COMP. WATERPROOF COMPOUND  
WHICH FORMS A MEMBRANE, RESISTANT TO  
POSITIVE AND NEGATIVE WATER PRESSURE  
AND AS UV-RESISTANT MULTI-USE-  
WATERPROOFING

## Product Description

LEYCO<sup>®</sup>-PLAST-AC is a acrylic based, modified coating that requires only on-site mixing of the two pre-packed components to form the ideal product to waterproof, resurface and protect concrete, masonry including sandstone, provided that the surfaces are adequately prepared. It is suitable for application to both vertical and horizontal surfaces, either to the pressure or non-pressure faces of the substrate. LEYCO<sup>®</sup>-PLAST-AC provides an effective barrier to dissolved salts and atmospheric gases. LEYCO<sup>®</sup>-PLAST-AC adheres virtually to all known sub-strata, such as asphalt roofs, metallic and wooden surfaces without using a primer. It is possible to glue ceramic on ceramic tiles.

Even in marine areas and exposed to UV-radiation, ozone and chemical reactions LEYCO<sup>®</sup>-PLAST-AC forms a non-ageing, flexible and durable waterproofing membrane. It is resistant to frost and heat after setting and remains permeable to water vapour.

LEYCO<sup>®</sup>-PLAST-AC is the predominant alternative for a multi-purpose and labour saving application. LEYCO<sup>®</sup>-PLAST-AC provides a non-ageing, hardwearing, seamless, cold applied waterproofing membrane for concrete, bituminous membranes, roofing felt, metal, plastic, wood, building board and most other construction materials.

## Uses

- To resurface concrete surfaces.
- Waterproof lining on walls and roofs
- For coating seawater channels.
- Sealing and coating tie bar holes.
- Bathrooms, kitchens and wet areas.
- As a waterproof coating for roofs.
- For waterproofing and fixing tiles in water retaining structures.
- Protection against pollution and chloride attack.
- Tunnels, bridges and reservoirs

## Advantages

- Permanently flexible and accommodates dynamic crack movement up to 1.0 mm
- Applied to either the pressure or non pressure faced surface
- Excellent adhesion. Bonds to porous and non-porous, even and non-even, old and new surfaces.
- Accepts non frequent foot traffic
- Vapour permeable whilst repelling water, allows substrate to breath.
- High resistance to carbon dioxide and chloride ion diffusion.

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- Unlike conventional coatings which require a 7-28 day cure of concrete, LEYCO®-PLAST-AC can be applied to 24 hour-old concrete thereby giving immediate protection.
- Colour compatible with the host concrete.
- Can be applied to damp concrete.
- Spray able using a hopper gun.
- Suitable for permanent sunlight exposure after curing.
- Non-toxic, ideal for potable water uses.

## Technical Data

### Chemical resistance

LEYCO®-PLAST- AC has outstanding wear and weather resistance and has good chemical resistance to gasoline, diesel, oil, sodium hydroxide, calcium chloride, de-icing salts and sewage.

Test work done at thickness of 2 mm, each coat with a consumption of 2kg/m<sup>2</sup>.

### Cured Properties:

Adhesion to concrete	up to 1.7 N/mm <sup>2</sup>
Penetration depth of water (at 7 bar)	0 mm (no leakage)
Elongation ASTM D2370	70%
Water absorption	9 %
after storage (2 weeks, 3% KOH)	5 %
Tensile strength	0.65 N/mm <sup>2</sup>
Service temperature continuous ambient:	- 20°C to +150°C (up to +240°C for short time period)

### Resistance to:

Freeze-Thaw (25/50 cycles)	<0.1 g/m <sup>2</sup>
Chloride penetration	0.08 %

Crack bridging

### Before ageing:

start at 0 mm	1.2 mm
start at 0.3 mm	1.2 mm

### After ageing:

start at 0 mm	1.0 mm
start at 0.3 mm	1.5 mm

### Diffusivity for

Vapour (R< 4 m)	2.0 m
CO <sub>2</sub> (R> 50 m)	640 m

### Appearance/Colour

Component A : Grey/White, Component B : Milky white

**Characteristics:** Component A= Powder , Component B = Liquid

**Mixing ratio ; Components (A+B) 2.5 :1 by weight**

### Packaging

LEYCO®-PLAST-AC is supplied in a 15 and 35 kg set.

**Specific Gravity (A) -, (B) 1.17 g/ml**

### Storage / Shelf life

LEYCO®-PLAST-AC must be stored above 5 °C and below 35 °C in dry conditions, off the ground and away from direct sunlight. Shelf life is 12 months in original unopened packing when stored in dry cool place.

## Application

### Surface Conditions

Temperature: Not less than +4 °C

### Method of application

Slurry application: brush or trowel Spray application: hopper gun, air compressor capable of 5 bar pressure and an air capacity of 500 litres/minute. Adjust the regulator at the compressor to 2.0 to 3.5 bar to achieve the desired spray finish.

### Coverage

Max. thickness: 5 mm

**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.

**LEYDE-PRODUCTS** are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale. 01.09.2009

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