# **LEYCO-PLAST AC**

The unique waterproofing and repairing solution for new and old underground concrete structures









LEYCOPLAST-AC will deal efficiently with sealing problems, repair and maintenance programmes in the entire construction industry

With LEYCOPLAST-AC you are on the safe side!



## You can trust

## **LEYCO-PLAST AC** for applications to...

## ...underground structures





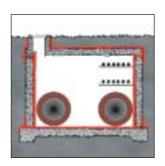
Using of LEYCO-PLAST AC for protection against pollution attack, aggressiv soil and waterproofing





Using of LEYCO-PLAST AC during tunnel constructions for waterproofing

#### ...maintenance structures





Coating the waterlevel zone of a





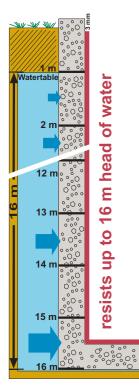
LEYCO-PLAST AC is a synthetic rubber/polymere modified cementitious coating. LEYCO-PLAST AC is the ideal product to waterproof, resurface and protect concrete, masonry including sandstone, provided that the surfaces are adequately prepared. LEYCO-PLAST AC provides an effective barrier to dissolved salts and atmospheric gases. It is suitable for application to both vertical and horizontal surfaces, either to the pressure or non-pressure faces of the substrate. Even in marine areas and exposed to UV-radiation, ozone, chemical reactions and aggressive soil LEYCO-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-PLAST AC is the predominant alternative for a multi-purpose and labour saving application. LEYCO-PLAST AC requires only on-site mixing of the two prepacked components before easy application by brush, trowel, roll or spraying.

LEYCO-PLAST AC provides a non-ageing, hardwearing, seamless, cold applied protection and waterproofing membrane for all types of underground structeres build in concrete or masonry. LEYCO-PLAST AC can be applied to most construction materials like bituminous membranes, roofing felt, metal, plastic, wood, building board.

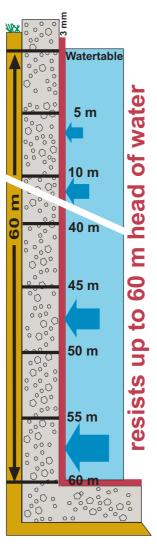
#### The unique properties

- to reface concrete surfaces overall protection against corrosion
- crack bridging (0.3 to 1.5 mm)
- easy to use (2-comp.) cold applied by trowel or brush
- excellent bonding
   highly resistant to negative hydrostatic
   pressure (Bond strenght 1.7 kN/mm2)
- good chemical resistance to hydrocarbons and salt
- impermeable for H<sub>2</sub>O, CO<sub>2</sub> and SO<sub>2</sub> impermeable for chlorides
- non toxic ideal for potable water uses



## **LEYCO-PLAST AC**

is applicable either on the pressure or non-pressure side of the substrate



#### **Typical applications**

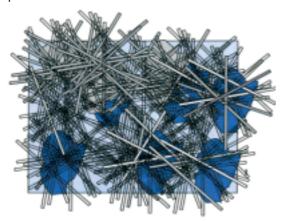
**Tunnels** 

Pits - Manholes - Conduits Water Reservoirs - Dams Water Treatment Plants Foundation and Retaining Walls

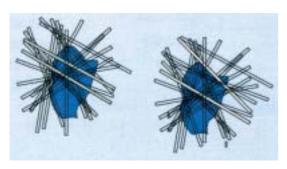


## **LEYCO-PLAST AC**

LEYCO-PLAST AC forms after setting a highly ageing resistant, crack bridging and flexible waterproofing and protection membrane. Special polymers assure that either latent harding of the cement nor osmotic influence causes a reduced flexibility and crack bridging performance.



A contious cement matrix is esthablished. The membrane is not flexible and crack bridging any more.



The special polymers allow a P/C value  $\geq 2$  and minimise the moisture expansion. The polymers assure that the cement-matrix is still discontinuous and the flexibility crack bridging performance remains completely.

#### **Technical Data**

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

Mixing ratio (A+B) 2.5 to 1 by weight Temperature Not less than +4 °C

**Cured Properties:** 

Adhesion to concrete 1.7 N/mm²
Penetration depth of water 0 mm
(at 7 bar) (no leakage)
Elongation ASTM D2370 70%
Water absorption 9 %
after 2 week storage in 3% KOH 5 %

after 2 week storage in 3% KOH 5 % Non-Toxic Service temperature 5 % C 0 % Service temperature 0 % Service temperature 0 % Service temperature 0 % Service 0 %

Resistance to

Freeze-Thaw (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

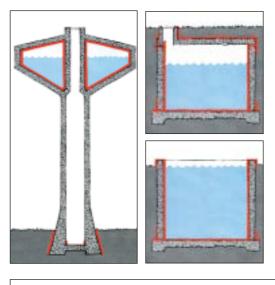
after ageing:

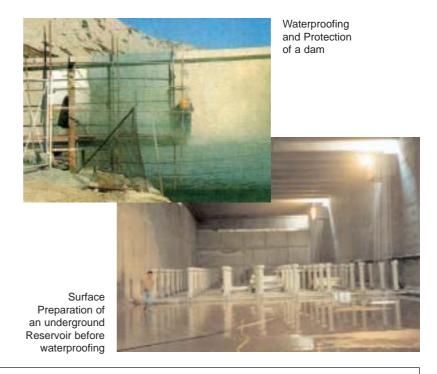
start at 0 mm 1.0 mm start at 0.3 mm 1.5 mm

Permeability

Vapour (R < 4 m) 2.0 m  $CO_2$  (R > 50 m) 640 m

### ...water bearing structures





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