

## MONNELI ACRILUX

*Protective Acrylic Coating*

### Product Description

A water based acrylic liquid membrane. It is easily applicable on horizontal and vertical surfaces. Once cured it forms a continuous waterproofing membrane resistant against the thermal changes and the ultraviolet rays.

### Uses

ACRILUX can be used as a waterproofing coating on following:

- Concrete roofs, metal profile roofs, asbestos roofs, domes
- Protective coating for Polyurethane sprayed foam against UV effect
- Protective coatings on underpasses & concrete bridge decks

### Advantages

- Easy to apply , single component
- Eco-friendly - water based
- UV and weathering resistant
- Good resistance to chloride ions and carbon dioxide diffusion

### Instructions for Use

#### Surface Preparation

The surface of the concrete shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

Moss and lichen must be removed physically followed by treatment with fungicidal wash. After treatment, it must be washed down thoroughly with clean water and allow to dry.

#### Crack treatment

Shrinkages and non-moving structural cracks less than 1.0mm shall be filled with a pre-treatment strip of ACRILUX of 1.0mm thick extended to 75 mm on both sides of the crack. Voids and honeycombs shall be patched with BETOFINISH C or EPOFINISH C allowing the area to cure before applying the membrane.

#### Right Angle Bends

All right angle bends must have a coving detail installed. In areas where parapet walls, columns, pipe penetrations are present, a 45° coving fillet shall be made at all corners using BETOCEM FIBER, a Fiber reinforced shrinkage controlled mortar for concrete repair to the water saturated cured surface.

All other angles, joints, protrusions and stress joints should be pre-treated with a heavy application of ACRILUX extending 150mm on both sides of the coving.

Allow the patched area to cure before applying the membrane.

#### Movement Joints

Expansion and movement joints should be sealed with ELASTOSEAL PU25, a polyurethane sealant.

Allow to cure before the application of ACRILUX.

#### Priming

ACRILUX diluted with 15% water shall be applied as a primer coat on the concrete surface to seal pores and stabilize the surface. The primer coat can be applied by brush roller or airless spray and should be allowed to dry before application of the coating.

#### Mixing

ACRILUX should be stirred before use until a uniform color and consistency is achieved. Product is ready for use.

## Application

ACRILUX shall be applied by brush, roller, or airless spray in 2 coats to achieve a minimum dry film thickness of 0.5 mm for each coat. The two coats must be applied at right angles to one another once the first coat completely dries.

Substrates that are exposed to movements and deformation or where cracks are expected, ARMOFLEX, a reinforcing glass fiber mesh shall be spread into the first coat of ACRILUX before applying the second coat.

A layer of fiber glass mesh should be embedded between the two ACRILUX coats over pipe culverts, floor drains, corner joints and floor / wall junctions.

It is recommended to spread sufficient clean silica and to the final wet coat of ACRILUX before applying adhesives. Tiling or finished floor installation ACRILUX should be carried out as soon as possible after full cure of membrane is established.

## Cleaning

All tools employed for the application of ACRILUX can be cleaned with water before it hardens. Cured materials should be mechanically removed.

## Recommendations

- ACRILUX is not recommended for use in swimming pools.
- After curing, tiles and flags can be laid with an appropriately specified Colmef adhesive over ACRILUX layer on vertical and horizontal areas.

## Consumption

Approximately 2.3 kg / m<sup>2</sup> for 1 mm thickness

## Packaging

ACRILUX is supplied in 20 kg plastic containers

## Storage

Keep the product at a temperature not less than +5°C and not more than +30°C in a tightly closed container. In these conditions ACRILUX maintains its characteristics unchanged for 12 months.

## Technical Data

Properties	Results
Appearance	Fluid paste
Standard color	white, grey other colors on request
Density at 25°C	1.25 kg/L
VOC	27 g/L
Chemical Resistance	Resistant to dilute alkalis, diesel, petrol
Solid content	55±5%
pH	8-9
Extension of breakup	>350%
UV Resistance	No effect after 1,000 hrs.
Adhesion to concrete	>1.0 N/mm <sup>2</sup>
Crack bridging ability	>1.0 mm
Impermeability to water	1.5 bar (waterproof)
Superficial film formation	50 minutes
Complete hardening at +25°C	7 days
Temperature of application	-5°C to +35°C
Harmfulness EEC 88/379	No

All values are subject to 5-10 % tolerance

## Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately. Do not induce vomiting.

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