

# ILIA

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## Acrux Water Proofing



### Description

Acrux is a high performance elastic acrylic waterproofing emulsion. Its final membrane is uniform, highly elastic (with the ability to deform more than 40% and follow substrate expansion without rupture), does not shrink and retains its elasticity in extreme temperature variations. It is also vapor permeable, reflective, inflammable, easily cleaned and resistant to aging and UV radiation. Acrux is user-friendly as it does not contain organic solvents and is diluted with water.

### Objective

- Excellent elasticity
- Perfect adhesion
- Easy application
- High reflectivity (Cold material)
- Highly resistant to extreme weathering and UV radiation
- Water soluble – Friendly to use



## Uses

Acrux is used alone, or reinforced in situ with glass mat, for waterproofing concrete, mosaic, paving slabs, plaster, asbestos cement, old bitumen and polyurethane hard foam surfaces. It can be applied on dry, or even slightly moisture, horizontal and vertical surfaces. It shows excellent adhesion to most common structural elements

## Instructions For Use

**SURFACE PREPARATION:** Surfaces should be regular, dust free, clean from oils and foreign matter.

Attention: Acrux must not be applied during frost or when the temperature is below 5 °C.

## Application

- It is cold applied in at least two layers by roller, brush or spray gun. Each new layer is applied in a crisscross pattern with respect to the previous one, when the latter is dry.
- Reinforcement (e.g. polyester fabric, glass fleece) may be used between two successive layers to increase the mechanical properties of the final film.

In the first layer (priming) acry seal is diluted with water up to 50%. In subsequent layers it is pure.

In both cases consumption ranges between 0.10 - 0.05 kg/m<sup>2</sup> per layer, depending on surface type and porosity. For very smooth or non-absorbing surfaces it is recommended to prime the surface with Acrux 21 (0.15 - 0.25 kg/m<sup>2</sup>).

**CLEANING OF TOOLS** are cleaned with water before the material has dried or by mechanical means in case it has already dried.



## Technical Characteristics

ACRUX is a viscous aqueous emulsion in its initial form. After application, it forms an elastic membrane, insoluble in water, withstanding temperature variations from -30 °C to 100 °C. Each kilo of Acrux covers an area of 2,5 square meters, it is not affected by detergents, weak acid and alkali solutions. It is affected by organic solvents

PROPERTIES	NOMINAL VALUE	TEST METHOD
APPEARANCE	Viscous Liquid	Observation
COLOR	White	Observation
DENSITY	1.45 ± 0.05 g/cm <sup>3</sup>	ASTM D-1475
NON VOLATILE MATTER (NVM)	> 60 %	Evaporation
Bending test (Φ 2 mm, -10 °C)	No cracks	ASTM D-522
Tensile strength, film 2 mm	>2.0 N	ASTM D-412
Elongation at break	>40.0%	ASTM D-412
Water permeability 3 atm, 24 h	0 gr	DIN 1048
Resistance to ponding water after 7 days	No difference	ASTM D-870
Reflectivity to sun radiation SR	85%	ASTM E903-96
Emissivity to IR radiation (± 0.02)	0.86	ASTM E408-71
Reflectivity indicator to sun radiation SRI	107	ASTM G159-98
Uniformity after 72 h at 23 °C	No water separation or settlement after moderate stirring	ASTM D-2824
Consistency	Good application by spray, roller or brush above 10 °C	ASTM D-2824

Tolerances in the nominal values are in accordance with respective standards. Producer reserves the right to modify the properties of his products.



## Precautions

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- In liquid form it pollutes the water. It should not be disposed to the ground but should be treated according to the relevant regulations.

## Packing

In pails of 5 and 10 and 25 kg.

## Storage

Stored in protected areas where temperature is maintained above 5 °C. Preserved in sealed containers for over a year.