



## HYDROFLEX•HYBRID PU

Hybrid-polyurethane elastomeric waterproofing roof-coating

### DESCRIPTION

High-quality, elastomeric waterproofing roof-coating composed out of special hybrid 50/50 polyurethane/acrylic polymers. Fast curing, forming a totally watertight, seamless, highly and permanently elastic membrane, resistant to UV radiation, stagnant water and other environmental corrosive agents. It doesn't contain organic solvents.

### APPLICATIONS

HYDROFLEX•HYBRID PU is suitable for waterproofing of terraces, balconies and roofs, as well as for waterproofing under tiles in wet areas. Thanks to its high solar reflectance it is capable to be applied as cool-roof coating.

### PROPERTIES

- Highly elastic seamless membrane without joints. Maintains elasticity within a broad temperature range from -20°C up to +80°C.
- Highly resistant to UV radiation.
- Resistant to stagnant water and frost.
- Excellent weathering resistance (up to 10 years) when reinforced with the special polyester fleece.
- Excellent bonding to old waterproofing membranes.
- Adheres perfectly on the substrate (concrete, wood, metal).
- High solar reflectance.
- Decreases the roof temperature and thus improves the energy performance of the building.
- Crack-bridging ability
- Environmentally friendly. Low VOC content, according to Directive 2004/42/EC.

### APPLICATION PROCEDURE

- The substrate must be clean, free of dust, grease, subtle materials, etc.
- Concrete surfaces must be repaired from serious cracks before the application of HYDROFLEX•HYBRID PU.
- Afterwards, the surface is treated with the special primer HYDRO•PRIMER or ACRYLIC PRIMER.
- After the primer has dried, HYDROFLEX•HYBRID PU is applied with a brush or a roller in two layers.
- The second layer is applied at a crossing direction after the first one has dried.
- In case of dense, multiple cracks appearing all over the surface, it is strongly recommended to thoroughly reinforce HYDROFLEX•HYBRID PU membrane with 100cm wide stripes of polyester fleece (50g/m<sup>2</sup>). The placed reinforcement shall overlap one another by 10cm. The reinforcement is applied into the fresh first layer of HYDROFLEX•HYBRID PU and subsequently, two more layers are applied.
- In difficult areas (corners, edges, joints between different materials, etc.) or for the treatment of cracks on concrete surfaces, it is advised to reinforce HYDROFLEX•HYBRID PU with suitable polyester fleece (50gr/m<sup>2</sup>) stripes of 10cm width. The reinforcement is applied into the fresh first layer of HYDROFLEX•HYBRID PU and subsequently, two more layers are applied.

## RECOMMENDATIONS

- Temperature during application should be between 5°C and 35°C. Low temperatures retard cure while high temperatures speed-up cure.
- Avoid product application during excess humid (>70%) conditions.
- Avoid product application if rain or frost is expected in the next 48 hours.
- Primer must dry completely before the application of the waterproofing layer.

## TECHNICAL CHARACTERISTICS

Appearance	Viscous liquid		
Colour	White		
Composition	Polyurethane/acrylic hybrid polymers		
PROPERTY	UNITS	STANDARD	VALUE
Density	kg/lt		1.40
Min. application temperature	°C		+5
Tack free time (20°C / 50% RH)	h	EN ISO 2811-1	2-3
Recoat time (20°C / 50% RH)	h	EN ISO 2811-1	16-24
Elongation at break	%	ASTM D 412	≥ 400
Capillary water absorption	kg/m <sup>2</sup> ·h <sup>0.5</sup>	EN ISO 1062-3	0.01 (W3 < 0.10)
Adhesion to concrete	N/mm <sup>2</sup>	EN 1542	≥ 1.5
Final curing time (20°C / 50% RH)	d		7
Operating temperature span after curing	°C		-20 to +80
Consumption	kg/m <sup>2</sup>		1.0-1.5
Reaction to fire		EN 13501-1	Class F

**Note:** Measures were carried out in laboratory environment conditions (+22°C, 60% R.H.) with no ventilation. The different conditions on site (temperature, humidity, wind, substrate absorption) may affect the properties of the material.

## SAFETY PRECAUTIONS

HYDROFLEX•HYBRID PU is not classified as dangerous according to European Regulation 1907/2006/EU (REACH) and its amendments.

- It is recommended to always wear suitable protective equipment for the eyes and skin (protective clothes, gloves and goggles).
- In case of contact with skin wash the infected area with plenty of clean water.
- In case of contact with eyes wash with plenty of fresh water and seek for medical advice immediately.
- For further safety instructions please refer to the Product's Safety Data Sheet.
- FOR PROFESSIONAL USE ONLY. Keep away from children.

## CONSUMPTION

About 1.0-1.5 kg/m<sup>2</sup> in two layers, depending on the type of substrate. Reinforcing the waterproofing membrane with the special polyester fabric will increase total consumption to 2.5kg/m<sup>2</sup>.

## PACKAGING - STORAGE

Available in:

- plastic containers of 5kg and 15kg.

**Shelf life:** HYDROFLEX•HYBRID PU can be stored for 24 months from production date in sealed packaging protected from direct sunlight and frost.

## WARNING

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOMIX** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.

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