

# HyRoof Hybrid PU

## Waterproofing PU Roof Coating



HyRoof Hybrid PU is hybrid elastomeric waterproofing roof coating, new technology based on acrylic polyurethane emulsion offering a complete waterproofing protection system for more than 10 years. It is certified with European Technical Approval (ETA 16/0755) by the notified body TZUS - member of EOTA - according to the European Technical Standard ETAG 005 (Liquid Applied Roof Waterproofing Kits). It forms a highly elastic, seamless membrane providing excellent protection from moisture and standing water. It has excellent adhesion to most commonly used roof substrates such as concrete, asphalt membranes, cement tiles, old insulations etc, after proper preparation or/and priming with HyRoof Hybrid PU Primer. Shows very low water uptake and crack bridging ability. Its innovative formula offers fast surface hardness, no tack surface, low dirt pick up, able to keep reflectance properties for longer time.

Exhibits high resistance to extreme weather conditions from -30°C/+90°C and excellent resistance to UV radiation and thermal ageing. Certified by the University of Athens, Department of Physics, as a cool thermoreflective roof coating, is a top layer of high reflectivity (visible spectrum reflectance 93%) which improves energy efficiency by reducing cooling costs. It is also certified as a coating for surface protection of concrete according to EN 1504-2. Easy implementation, safe use and no restrictions makes HyRoof Hybrid PU ideal solution for DIY application.

- Hybrid elastomeric polyurethane
- It forms a highly elastic, seamless membrane
- Excellent protection from moisture and standing water more than 10 years

### SPECIAL CHARACTERISTICS

Certified from the University of Athens, Department of Physics, as a cool material for roofs with the following properties:

Initial Total Solar Reflectance SR = 88% (300-2500nm) (ASTM 903-96 and ASTM G 159-98)

Solar Reflectance Visual SR<sub>vis</sub> = 93% (ASTM E 903-96 και ASTM G 159-98)

Solar Reflectance Near Infrared SR<sub>nir</sub> = 89% (ASTM E 903-96 και ASTM G 159-98)

Infrared Emittance Factor  $\epsilon = 0,87$  (ASTM E 408-71-2002)

Solar Reflectance Index SRI = 111 (ASTM E 1980-01)

### COLOURS

Available in white.

### PACKAGING

White	750 mL	3 L	10 L
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### SPREADING RATE

Total recommended consumption for two coats at least 0.7 -1 L/m<sup>2</sup> (0.9 – 1.3 Kg/ m<sup>2</sup>) on properly prepared surfaces.



### VOC (Volatile Organic Compounds) CONTENT

EU maximum VOC content limit values (Directive 2004/42/CE) for this product (category **A/c** "Exterior walls of mineral substrate", Type **WB**): **40 g/L**. This product contains maximum **10 g/L** VOCs (ready for use product).

### SURFACE PREPARATION

Surfaces should be smooth, clean and dry, free from grease, dust, loose or flaking material. Cracks or joints should first be filled with Elastomeric Putty by Vitex. New or weathered surfaces should be primed with HyRoof Primer for the stabilization of the substrate.

### APPLICATION

Stir well before use. Applied with roller, emulsion brush or spay gun in two layers crosswise without dilution, with a total consumption of at least 0.7 -1 Lt/ m<sup>2</sup> all over the flat surface and on perimeter vertical parapets at least 30-40 cm in height. For protection and increase the lifetime of the waterproofing more than 10 years is required to use a polyester fabric 50-100 gr/m<sup>2</sup> as a reinforcing material which is incorporated between the layers while the underlying surface is still wet. Recommended consumption of HyRoof Hybrid PU is 1,1 Lt/m<sup>2</sup> under reinforcement, topcoat 0,8Lt/m<sup>2</sup>, reaching a total consumption of at least 1,9 Lt/m<sup>2</sup>.

Do not apply at temperature below 5°C, above 35°C and / or relative humidity above 70%.

Avoid application when rain or frost is expected in the next 48 hours.

It is touch-dry after 2-3 hours and can be recoated after 16 to 24 hours. Drying time depends on weather conditions (humidity and temperature).

Tools must be cleaned immediately after use with water and if needed with soapy water or a detergent.

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## TECHNICAL CHARACTERISTICS

Viscosity	125 ± 10 KU (ASTM D 562, 25°C)
Density	1,32 ± 0,02 Kg / L (ISO 2811)

## STORAGE

Containers must be kept closed in a cool, dry, well ventilated area protected from direct sunlight at temperatures between 5°C - 38°C.

## SAFETY ADVICE

Read label before use. For further instructions - precautions see Material Safety Data Sheet.

1020	
VITEX – YANNIDIS BROS S.A. P.O. BOX 139 IMEROS TOPOS ASPROPYRGOS GR 19300 <b>HYROOF HYBRID PU SYSTEM</b> <b>17</b> <b>DoP No : VIT-CPR-0027</b>	
<b>ETA 16/0755</b> <b>ETAG 005 part 1 &amp; part 8</b> <b>LIQUID APPLIED ROOF WATERPROOFING KITS</b>	
External fire performance	No performance assessed
Reaction to fire	E
Expected working life	W2 (10 years)
Climatic zone of use	S (severe)
User loads	less compressible substrate P2
	most compressible substrate P2
Roof slopes	S1 – S4
Minimum surface temperature	TL3(TL4) -20°C (-30°C)
Maximum surface temperature	TH4 (90°C)

VITEX – YANNIDIS BROS S.A. P.O. BOX 139 IMEROS TOPOS ASPROPYRGOS GR 19300 <b>HYROOF HYBRID PU SYSTEM</b> <b>16</b> <b>DoP No : VIT-CPR-0030.1</b>	
<b>EN 1504-2</b> <b>Surface protection systems for concrete-Coating</b>	
Reaction to fire	E
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Water vapour permeability	$S_D = 0,8\text{m}$ (Class I)
Adhesion strength by pull off test	$>2,0 \text{ N/mm}^2$
Permeability to CO2	$>50\text{m}$
Dangerous substances	Complies with §5.4

