

# IsorooF PU Hybrid

**Technical Specifications**  
Date of issue: 04/10/2023  
Version Number: 7th

## Hybrid Elastomeric Polyurethane Waterproof Coating



ISOROOF PU HYBRID is a new hybrid technology elastomeric waterproof roof coating, based on acrylic polyurethane. It forms a membrane resistant to moisture and standing water providing superior protection up to 15 years, depending on the number of coats and the number of reinforcement sheets. Obtains quick surface hardness and becomes easy to walk on, without sticking. Due to its special - innovative composition, prevents ingress of dust and dirt on the surfaces, so they do not easily mess, maintaining the whiteness and heat-reflective properties over time. With strong adhesion and high elasticity, bridges small cracks and joints obtaining excellent resistance to extreme weather conditions from +80°C to -25°C. It is a cool paint with high solar reflectance and thermal insulation properties. It reduces significantly the roof temperature in summer and holds it waterproof in winter, thus minimizing the need for air conditioning and contributing to energy saving. It maintains its elasticity by following contractions and expansions due to high or sudden temperature changes, preventing surface cracks.

### Surface preparation

All surfaces need to be dry, clean and free from any kind of loose particles, asphalt residuals, grease, dust and poorly adhesive materials. Surface cracks must be filled with VERNILAC's Acrylic Elastomeric Putty SPATOCRYL ELASTIC. For large surface cracks, use a polyurethane cord to fill the gap and then, apply SPATOCRYL ELASTIC Putty to fill up the gap and seal it completely. Expansion - contraction joints must be bridged over with a polyester fabrique, previously soaked in ISOROOF PU HYBRID. In order to achieve excellent adhesion conditions, prime the surface with VERNILAC's Waterproof solvent-based Acrylic Primer DUROCOAT.

### Thinning

Not required. The product is ready for use.

### Physical / Technical Characteristics

Solids: 62% ± 1 [ASTM D2369].  
Density: 1,34 Kg/L ± 0,01 [EΛOT EN ISO 2811.01].  
Viscosity: 133 KU ± 2 [ASTM D562].  
pH: 8,0-8,5.  
Permeability of CO<sub>2</sub>: S<sub>D</sub> > 50m [EN 1062-6].  
Permeability to water vapor: Class I [EN ISO 7783-2].  
Capillary absorption: w < 0,1 kg/m<sup>2</sup>.h<sup>0,5</sup> [EN 1062-3].  
Adhesion: ≥ 0,8 N/mm<sup>2</sup> [EN 1542].

### Application

Stir thoroughly and occasionally during use. ISOROOF PU HYBRID is an ideal waterproof coating, suitable for sealing any horizontal or vertical, new or old, exterior surface made of concrete, plaster, brick, wood, stone or other construction materials. Apply by brush, roller, spray or airless two coats of the product crossways and insist on covering well all difficult surface points (corners, edges, etc), in order to avoid humidity penetration. The maximum long-term protection (10-15 years) is ensured by applying at least three coats of ISOROOF PU HYBRID at 4 Kg/m<sup>2</sup> and the use of polyester reinforcement 100 gr/m<sup>2</sup> (for more information please refer to the product's technical data sheet). During summer, avoid the application of the product at high temperatures combined with high air humidity and prefer to use it during morning hours. Do not apply the product to heat or freezing conditions (temperatures below 4°C or greater than 35°C).



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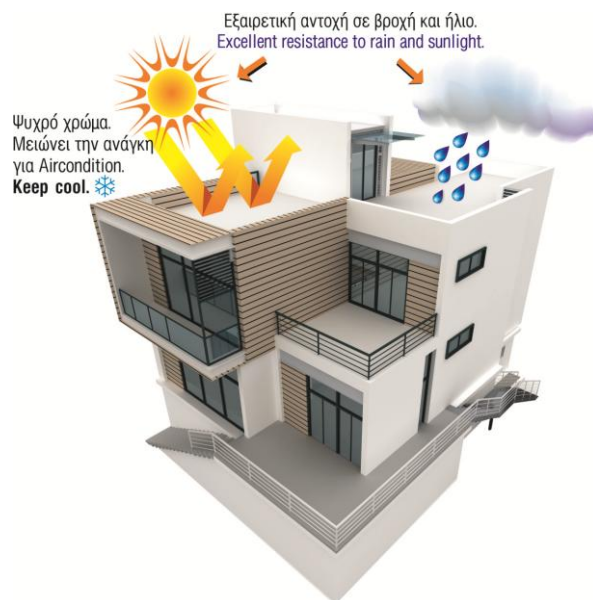
APPLICATION TABLE		
CONSUMPTION	Duration of waterproofing (evaluation of minimum waterproofing duration)	Use of polyester reinforcement.
1,0 Kg/m <sup>2</sup>	4-5 years	Can be applied in one layer.
1,5 Kg/m <sup>2</sup>	5-7 years	
2,0 Kg/m <sup>2</sup>	7-9 years	
2,0 Kg/m <sup>2</sup>	9-10 years Use of reinforcement: 50 gr/m <sup>2</sup>	At least 3 layers should be applied.
4,0 Kg/m <sup>2</sup>	10-15* years Use of reinforcement: 100 gr/m <sup>2</sup>	
* Depending on the type of reinforcement.		

## Packaging

White	750 ml.	3 lt.	10 lt.
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## Safety information

Read the label before use. For detailed instructions - precautions, consult the Product Safety Data Sheet. Poison Information Centre: (+30) 210 77 93 777.



## Drying - Recoating

Touch dry after 3-4 hours. Recoat after 12-24 hours. Under cooler or humid conditions, allow longer times.

## Coverage

Approximately, 1,2-1,4 m<sup>2</sup> per liter, in two coats, on a properly prepared surface.

## Color shades

Available in white.

## Storage

12 months, if stored in factory sealed containers, in a cool, dry place and temperatures ranging from 5°C to 40°C. Left over paint must be stored, in tightly sealed containers and temperatures ranging from 5°C to 40°C.

## Clean up

Clean up tools and equipment with water, immediately after use. If needed, use soap or a household detergent solution. Do not empty waste water into drains or watercourses.

## Volatile organic compounds (VOC)

The maximum EU limit value (Directive 2004/42/CE) for this product [Category A/c "Exterior walls of mineral substrate", Type WB] is 40 g/l (2010). This product contains maximum 39 g/l VOC (ready for use).

<b>CE</b>
<b>VERNILAC S.A., 27 km Old National Road Athens - Thebes, 19600 Mandra, Attica, Greece 21</b>
<b>EN 1504-2</b> DoP No.: VERNILAC- ISOROOF PU HYBRID 10060-02 <b>Surface protection products for concrete - Coating</b> Permeability to Co <sub>2</sub> : S <sub>0</sub> > 50m Permeability to water vapour: Class I S <sub>0</sub> < 5m (permeable) Capillary absorption and permeability to water: w < 0,1 kg/m <sup>2</sup> ·h <sup>0,5</sup> Adhesion strength by pull-off test: ≥ 1,5 (1,0) N/mm <sup>2</sup> Reaction to fire: Class F Release of dangerous substances comply with 5.3



All the information provided in this technical data sheet is the result of the scientific knowledge of the company's personnel and the practical experience in product application. This document doesn't express or imply a guarantee as the company cannot control and bears no responsibility for the conditions and the manner of application, the adjustment and the modification of the product when used by the customer. The customer must confirm by his own means that the product is suitable for the intended use. The current version of technical data sheet withdraws all previous versions for this product.



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