



## ISOLOR HYBRID Aqua Plus+

### High Solids Hybrid Elastomeric Waterproofing Coating



**Covering Power:** 0,7 - 2 m<sup>2</sup>/kg depending on the surface and the application tool



**Drying:** 1 - 3 hours



**Dilution:** up to 5% with water, or up to 10% for application on old bituminous roofing



**Recoatability:** 8 - 12 hours



**Packaging:** 750ml, 3lt, 10lt

**Application with:** Brush, Roller, Airless Spray

#### GENERAL CHARACTERISTICS

Water based high solids hybrid elastomeric water-proofing coating with high tech acrylic and polyurethane resins. Fast curing and water tight against ponding water. It develops a water vapour diffusive coating, which keeps its elasticity from -20oC up to +80oC and is non-sticky, walkable and resistant to pedestrian traffic. Excellent crack bridging ability up to 1,5mm. Its innovative synthesis permits high build coating even in one coat (1,5kg/m<sup>2</sup>), very good dirty pick up resistance and superior thermoreflective properties. It is certified as cool-thermoreflective coating. Reliable and cost-effective water proofing solution. Easy to apply.

ISOLOR HYBRID AQUA plus carries the CE mark as it is certified by EN-1504-2 as a concrete protection product against penetration, moisture control and increased resistance to limiting the moisture content. It is also certified as cold - reflective material (CRES, DEMOKRITOS) and offers excellent heat - refraction (reducing the cooling cost in the summer months).

It is a solution of excellent cost-effectiveness in sealing maintenance with or without the use of glass or polyester reinforcement strips. Easy application and maintenance (by qualified or unskilled personnel), user friendly and environment friendly.

**TECHNICAL CHARACTERISTICS**

<b>Specific Gravity</b>	1,50-1,54 kg/lt
<b>Covering Power and Consumption</b>	1, 25-2 m <sup>2</sup> /kg & 0,5-0,8 m <sup>2</sup> /kg (roller application) per coat and 0,7-1 m <sup>2</sup> /kg & 1- 1,5kg/m <sup>2</sup> (thick brush application) depending on surface roughness
<b>Dilution</b>	Up to 5% on volume with water. For application on old bituminous roofing, the first coat should be diluted up to 10%.
<b>Drying</b>	1-3 hours touch free. Recoat able 8-12 hours.
<b>Recoatability</b>	6-12 hours after first layer's application These times prolong under cold and wet weather conditions. Walkable after 3-4 hours.
<b>Water &amp; Alkali resistance</b>	Very good water and alkali resistance.
<b>Elasticity &amp; Elongation at break</b>	350% elongation, film thickness up to 1mm and temperature 23 °C & 100% elongation, film thickness up to 1mm and temperature 10oC & Keeps elasticity on temperatures between -20oC and 80 °C.
<b>VOC Class</b>	"Exterior wall coatings of mineral substrate". Type WB. VOC limit = 40 gr/lt. Max VOC of product ready for use = 39 gr/lt. VOC: organic volatile compounds wit boiling point < 250 °C.
<b>Application tools</b>	Brush, Roller, Airless Spray
<b>Shades</b>	White, Red-brown.
<b>Reflection in visible spectrum</b>	R= 89,5% ±2% (400-750 nm, ASTM E903-96)
<b>Reflection in Infra-Rede (IR) area</b>	R=89,5% ± 2% (780-2500 nm, ASTM E903-96)
<b>Emission Coefficient</b>	0,88 (ε, ASTM E408-71)
<b>Adhesion on concrete</b>	>4MPa (EN 24624)
<b>Adhesion on concrete on which Isolor Hybrid Primer has been applied</b>	>6MPa (EN 24624)
<b>Tensile Strength</b>	( 23 °C /-20 °C) N/mm <sup>2</sup> = 1.4 / 7.5

**Table 1**

CONSUMPTION	WATERPROOFING LIFE	USE OF REINFORCING POLYESTER FLEECE
1,0 kg/m <sup>2</sup>	4-5 years	
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 fleece: 50 gr/m <sup>2</sup>	Apply at least 3 layers
4,0 kg/m <sup>2</sup>	10-14* years Use of fleece: 100 gr/m <sup>2</sup>	
* Depending on the fleece type		



CONCRETE PROTECTION AGAINST DYNAMICS (1.3), HUMIDITY CONTROL (2.2) AND INCREASING SPECIFIC RESISTANCE WITH LIMITATION OF CONTAINED HUMIDITY (8.2)

CO <sub>2</sub> PERMEABILITY	Sd > 50m (EN 1062-6)
HYDRAULICS PERMEABILITY	CLASS 1 (sd < 5m) (EN ISO 7783)
CAPILLARY ABSORPTION AND WATERPROOFNESS	W = 0,05 Kgr/m <sup>2</sup> *h <sup>0,5</sup> (<0,1 Kgr/m <sup>2</sup> *h <sup>0,5</sup> ) (EN 1062-3)
DISCLAIMER RESISTANCE	> 0,8 N/mm <sup>2</sup> (EN 1542)
DANGEROUS SUBSTANCES	According to 5.3
REACTION TO FIRE	EUROCLASS F



## SURFACE PREPARATION

New surfaces: apply Isolor Hybrid Primer, which is ready for use without delusion. Old surfaces: Clean the surface of dust, oil, cropped paints, rust and dampness. If needed use repair products like Smaltfill elastic putty and/or polyester reinforcement material and/or PU shielding products. Then apply Isolor Hybrid Primer.

## APPLICATION

Stir well. Apply uniformly ISOLOR Hybrid Aqua Plus. Higher consumption of the product per m<sup>2</sup> affects the lifetime expectancy of the coating (see in Table 1). The use of polyester reinforcement material needs for the application three coats of ISOLOR Hybrid Aqua Plus+. Put the reinforcement material on the wet first coat. After the drying, apply additional two coats.

## CLEANING EQUIPMENT

While working keep your equipment wet, either in the pot, or in the paint lauder. Strain well your tools from paint back to the pot and clean immediately with warm water and soap.

## APPLICATION CONDITIONS

Temperature 8-35°C and relative humidity lower than 80%. Do not apply in case of imminent rain.

## STORAGE

Close well after application. Store in a cool place. Protect from freezing and sun exposure..

## LABELLING

\* More information in Material Safety Data Sheets (MSDS).

The technical data and instructions included in this technical leaflet are based on audits of confidential laboratories and result of the knowledge and experience of the company's scientific staff. The quality of the product is guaranteed by the company, which is aligned with the requirements of ISO 9001, 14001 and EMAS. As a producer, we are not responsible for any damage or damage caused if the product has not been used for proper application and in accordance with its instructions for use.