

# UZIN POLYTOL HYBRID

Waterbased 1-component elastic sealing coating

## Description:

Spreadable, film-forming elastomeric water-insulating product. 1-component, aqueous dispersions based on acrylic resins and styrene copolymers. Insulates against moisture exterior vertical and horizontal surfaces. After hardening forms a flexible, resilient sealing membrane, with a longlasting life.

Suitable product for the following projects:

- ▶ Roof and terraces waterproofing on various substrates such as cement/concrete or other mineral surfaces, fiber-reinforced mortars, metals, wood, tiles, bricks, asphaltic membranes with upper aluminum foils, etc.
- ▶ Coatings on vertical surfaces against protection in areas of high humidity due to various weather conditions and also from possible water/moisture penetration e.g. walls, parapets, gutters, chimney, eaves etc.

## Product properties / advantages:

Viscous product with high quality, solvent-free, non-toxic, based on water-dispersions, providing high wetting ability and fast drying. When dries, it forms a non-sticky film without gloss, characterized by excellent elasticity and waterproofness meanwhile keeping perfect thermal stability (from temperatures -20°C to +100°C), resistance to sunlight and alkali solutions, acids and/or detergents.

**Components:** Water emulsion of styrene-copolymer with acrylic resins

- ▶ Waterproof
- ▶ Super elastic
- ▶ Resistant to wide temperature, UV, and moisture range transitions
- ▶ **Easy and fast applicable.**
- ▶ **Excellent penetration, forms film immediately**
- ▶ Excellent cohesion with various substrates
- ▶ High performance/Economic
- ▶ Spray-able
- ▶ Solvent-free
- ▶ Low emissions

## Technical Data:

Package:	PE bottle and buckets
Gross Weight:	1 kg, 5 kg, 15 kg, 25 kg
Storage:	min 12 months
Color:	White, Κεραμιδί
Consumption:	2-5 kg/m <sup>2</sup> (See Table)
Min application temperature:	+10 °C
Ideal working temperatures:	15 - 25 °C (substrate)
Drying Time:	4 hours*
Next coating:	After 24 hours*
Final Strengths/Loading:	After 7 days*
Solid content:	~ 65%
Special Gravity:	1,28 kg/lt

\* At 20 °C and 65 % relative humidity. See also "Application Table".

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## Substrate preparation:

The substrate must be sound, load bearing, dry, free from cracks, clean and free from materials (dirt, oil, grease), that would impair adhesion. Uneven or areas with stagnating water must be abraded and vacuumed off or be repaired first with the recommended UZIN mortar before applying POLYTOL HYBRID. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies.

Any adhesion-reducing or unstable layers e.g. release agents, loose adhesives, compounds, covering or paint residues etc. must be removed, e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum off loose material and dust. Allow any primers that are applied to dry completely.

Refer to the product data sheets for other products used.

## Application:

1. Allow the container to reach room temperature before use and shake well before the use.
2. Apply UZIN POLYTOL HYBRID using a short, piled roller, brush, or air pistol (5-10% w/w water dilution).
3. When POLYTOL HYBRID is diluted at 25% w/w with water it could be used as a primer for high porous surfaces. Carefully apply the product in order to penetrate thoroughly and the substrate is wetted uniformly. After primer's drying apply subsequent coats of UZIN POLYTOL HYBRID until the desired layer thickness. At the edges, walls, joints, and murkiness etc. apply the product with the recommended brush type. Before the sequences of laminated layers ensure that the preceded layer is completely dry and not sticky.
4. Clean tools with water immediately after use.

## Application Table:

Substrate	Consump-	Drying
Cement screeds or concrete	1 - 2 kg/m <sup>2</sup>	Approx. 4 hours*
Calciumsulphate screeds, plasters, gypsum plasters	0.5 -1 kg/m <sup>2</sup>	Approx. 4 hours*
Dense surfaces	1-1.5 g/m <sup>2</sup>	Approx. 4 hours*

\* At 20 °C and 65 % relative humidity

## Important Notes:

- ▶ Shelf-life min. 12 months in original packaging when stored in moderately cool conditions. Frost-resistant to 20°C. Re-seal opened containers tightly and use contents as quickly as possible. Allow product to reach room temperature before processing.
- ▶ Optimum working at 15 - 25 °C, substrate temperature over 15°C and relative humidity below 65 %. **Mind dew-point in order to avoid failures, due to water vapor condensation.** Low temperatures and high humidity will delay whilst high temperatures and low humidity will accelerate the drying time.
- ▶ Not suitable for use on water-soluble adhesive remnants (e.g. spent sulphite lye adhesives) or tackifiers, or old bitumen adhesive remnants. In such cases, use a suitable primer from the current UZIN product range. For direct application of the material on surfaces of PVC, or polyester based substrates, as well as existing color paints carry out your own tests in order to ensure compatibility for product application. Otherwise, light-sanding of the surface should precede prior to application.
- ▶ Unsuitable for permanent contact with water.
- ▶ Unsuitable for permanent immersion in water.
- ▶ Do not use on chipboard panels, OSB panels or other wood-based substrates. In such cases, use a suitable primer from the current UZIN product range.
- ▶ Observe generally acknowledged industry and technology best practice, plus the respective applicable national standards. (e.g. EN, DIN).

## Protection of the workplace and the environment:

The use of skin protection lotion is recommended as a rule. Store out of the reach of children. Ensure thorough ventilation during and after working/drying! Do not eat, drink or smoke while working with the product. In the event of contact with the eyes or skin, rinse immediately with plenty of water.

Do not dispose of into the sewer system, open water or the soil. Clean tools with water and soap immediately after use.

Very low emissions. To the best of current knowledge, does not emit any relevant emissions of formaldehyde, harmful substances, or other volatile organic compounds (VOCs). Odorless as well as ecologically and physiologically harmless when fully dried. Basic prerequisites for optimal interior air quality after floor covering work depend on installation conditions conforming to standards, plus thoroughly dried substrates, primers and leveling compounds. Product contains isothiazolinones. **For allergy information, call +210 7793777 (Greece).**

## Disposal:

Collect and reuse product residues wherever possible. Do not dispose of it into the sewer system, open water or the soil. Empty, plastic containers (scraped clean and drip-free) can be recycled. Containers with liquid residues are classified as special waste, as are collected liquid product residues. Containers with residues that have dried solid are classified as construction / household waste

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**EN 1504-2:2004**  
**surface protection products**  
**hydrophobic impregnation:**  
**1 - Protection against Ingress (PI) &**  
**2 - Moisture Control (MC)**

Permeability to:

Water vapor	<b>S<sub>D</sub> &gt; 50 m</b>
CO <sub>2</sub>	<b>Class III</b>
Capillary absorption	<b>w &lt; 0.1 kg/m<sup>2</sup>·h<sup>0,5</sup></b>
Water absorption and resistance to :	
Petroleum	<b>Class I</b>
Acetic acid (20%)	<b>Class II</b>
Sodium Hydroxide (20%)	<b>Class II</b>
Hydrochloric acid	<b>Class I</b>
Adhesion strength	<b>0.8 N/mm<sup>2</sup></b>
Artificial weathering:	<b>NPD</b>
Reaction to fire:	<b>NPD</b>
Dangerous substances	<b>Does not contain</b>
comply with 5.4	

[www.uzin.gr/DoP](http://www.uzin.gr/DoP)