

# ELASTOPAINT 350

## ONE-COMPONENT POLYURETHANE MOISTURE CURING COATING

IN COMPLIANCE WITH THE REQUIREMENTS OF THE 1504-2 EUROPEAN STANDARD:  
Product for the protection against the risk of penetration 1.3, moisture control 2.2, resistivity increase 8.2

### Features

- Fluid product, applicable with roller, brush, spray.
- Waterproof.
- Excellent elasticity, even at low temperatures.
- Resistant to UV rays, abrasion, bad weather.
- Crack bridging ability.
- Available in the thixotropic version.
- Available in the **Broof T4** version.
- Application temperature from +5°C to +35°C (support), support humidity < 4 %, R.H. between 35 and 80 %, above the dew point by at least 3°C.
- Operating temperature from -40°C to +80°C in air.

### Field of use

- Waterproofing protective product for roofs, stairs, balconies, bridges, terraces, etc.
- Usable to make waterproofing with nonwoven fabric.

### Application

#### Support preparation

Support preparation is fundamental, thus the surface to be treated must be free of any pollutant, dry, coherent and it must have a bond strength of at least 1,5 MPa. In any case it is necessary, depending on the type of surface, to make a preparation of the flooring by sand-blasting, milling, shot peening, smoothing or sanding.

Free and stagnant water coming from the foundation, from previous washing processes or from meteorological events must be removed or dried.

Application on tar papers: remove all deformations of the tar paper. Some repair can be done with tar paper itself. Possible repairs can be done with polyurethane foam.

#### Primer

On surfaces affected by humidity or counterthrust, apply at least two coats of **EPOXCEMENT TIXO** or **EPOXCEMENT HB RAPIDO** until a dry surface is obtained.

Depending on the desired thickness it is also possible to proceed in the following way:

	PRODUCT	CONSUMPTION
Primer	<b>ITALPOX 50</b> (diluted) or <b>PRIMER 60</b>	100 g/m <sup>2</sup>
First coat	<b>ELASTOPAINT 350</b>	500 g/m <sup>2</sup>
Second coat	<b>ELASTOPAINT 350</b>	1000 g/m <sup>2</sup>
<u>Occasional pedestrian traffic, thickness 750 µm</u>		
	PRODUCT	CONSUMPTION
Primer	<b>ITALPOX 50</b> (diluted) or <b>PRIMER 60</b>	100 g/m <sup>2</sup>
First coat	<b>ELASTOPAINT 350</b>	500 g/m <sup>2</sup>
Second coat	<b>ELASTOPAINT 350</b>	800 g/m <sup>2</sup>
Third coat	<b>ELASTOPAINT 350</b>	800 g/m <sup>2</sup>
<u>Occasional pedestrian traffic, thickness 1100 µm</u>		
	PRODUCT	CONSUMPTION
Primer	<b>RESINA 530</b>	500 g/m <sup>2</sup>
Quartz broadcast	grain size 0,5-0,8 mm	3000 g/m <sup>2</sup>
First coat	<b>ELASTOPAINT 350</b>	1500 g/m <sup>2</sup>
Second coat	<b>ELASTOPAINT 350</b>	1500 g/m <sup>2</sup>
<u>Occasional pedestrian traffic, thickness 2000 µm</u>		

#### Product preparation

One-component product ready to use after homogenization with a low rate drill.

If necessary it is possible to thin it with at most 5 % **DILUENTE PER 350 MONO**. Do not use thinners which contain reactive groups such as alcohols. Inappropriate thinners prevent the product from curing.

#### Application

Apply the product not earlier than 24 hours after the application of the previous coat.

Applicable by brush, roller or airless spray gun.

On the wet painting it is possible to apply the nonwoven fabric or the glass fiber, then with a clean roller press lightly on the surface to improve the contact between the fabric and the product. Applications without nonwoven fabric or glass fiber are anyway feasible.

To increase the UV resistance apply one 150 g/m<sup>2</sup> coat of **ITALPAINT 10** or **ITALPAINT 67**.

#### Joints and connections with different materials

Pay the utmost attention to structural joints. Before the application of the protective coating create an omega-shaped support with an elastic butyl strap or a nonwoven fabric.

#### Tools cleaning

The tools must be cleaned with **DILUENTE PER 350 MONO** after use.

### **Technical data**

Colour	Grey, white, red, others on request	-
Density	1,59 ± 0,05 kg/l	EN ISO 2811-1
Viscosity at 20°C	7500 ± 1500 mPa·s	EN ISO 2555
Non-volatile-matter content	90 ± 2 %	EN ISO 3251

Impact resistance	4 N·m	EN ISO 6272
Elongation at break	> 450 %	EN 12311-2
Bond strength by pull-off	> 4 MPa	EN 1542
Shore A hardness	> 70	EN ISO 868
UV Resistance (INVE 2000) P-500W lamp	Excellent 50 hours at 70°C	
Crack bridging <i>Method A, static</i> <i>Method B, dynamic</i>	A5 (23°C) > B4.1 (23°C)	EN 1062-7
Hydrolysis 30 days at 55°C	Excellent	
Carbon dioxide permeability	$s_D > 50 \text{ m}$	EN 1062-6
Water vapour permeability	$s_D < 5 \text{ m}$	EN ISO 7783-2
Liquid water permeability	$w < 0,1 \text{ kg/m}^2 \times \text{h}^{0,5}$	EN ISO 1062-3
Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives <i>Initial adhesion</i> <i>Adhesion after water contact</i>	> 0,5 MPa > 0,5 MPa	UNI EN 14891

### Curing

At 22°C, 50 % R.H. - Touch dry - Insensitive to rain - Overlaying - Complete curing	7-9 hours 7 hours 24 hours maximum 10 days
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Since the product is moisture curing, the curing speed is strongly affected by the relative humidity of the environment.

The curing speed to “touch dry” depends on the quantity of **ACCELERANTE PU**:

At 20°C, 35 % R.H. +3 % +5 % +10 %	5 hours 4 hours 3 hours
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Do not add more quantity of **ACCELERANTE PU**, otherwise the product will not cure.


### Storage

The product in the original sealed packaging, stored in a dry and sheltered place at a temperature comprised between +5°C and +35°C, is preserved for 6 months.

**Safety**

In the application of this product it is advisable to use goggles, rubber gloves and all the PPE required by the laws on the use of chemical substances.

For all the additional information consult the material safety data sheet of the product.

		
<b>PERFORMACES IN COMPLIANCE WITH CERTIFICATION CE EN 1504-2</b>		
<b>Product type 1808</b>		<b>DoP 129</b>
<b>Characteristics</b>	<b>Product performance</b>	<b>Test Method</b>
CO <sub>2</sub> permeability	s <sub>D</sub> > 50 m	EN 1062-6
Water vapour permeability	Class I	EN ISO 7783-2
Liquid water permeability	w < 0,1 kg/m <sup>2</sup> x h <sup>0.5</sup>	EN ISO 1062-3
Bond strength by pull-off	> 2,0 N/mm <sup>2</sup>	EN 1542
Crack bridging	A5 (23°C) > B4.1 (23°C)	EN 1062-7
Impact resistance	Class I	EN ISO 6272-1
Abrasion resistance	< 3000 mg	EN ISO 5470-1
Hazardous substances	The hardened product does not release hazardous substances	
Reaction to fire	F	EN 13501-1
Exposition to artificial atmospheric agents	No blistering, no cracking, no flaking	EN 1062-11

*The information contained in this sheet are based on our knowledge and current experiences. They cannot in any case imply a guarantee by our side, nor responsibility for the use of our products, since the usage conditions are not under our control. Before using the product it is thus advisable to make practical tests to confirm the suitability for the intended use in the real operating conditions. ITALCHIMICA S.r.l. reserves the right to modify technical features, descriptions and illustrations in any moment. The company declines any civil liability for the non-compliant or inappropriate employment of the product compared to what is disclosed in the technical data sheet.*