

# ITALPOX 50

## EPOXY RESIN IN AQUEOUS DISPERSION

IN COMPLIANCE WITH THE REQUIREMENTS OF THE 1504-2 EUROPEAN STANDARD:

Product for the protection against the risk of penetration 1.3 (C), moisture control 2.2 (C), resistivity increase 8.2 (C)

### Features

- Odorless and non-toxic product ideal for closed places.
- Good compatibility with humid supports.
- Excellent mechanical properties, hardness and abrasion resistance.
- Employable as primer for bituminous supports.
- Good resistance to oils and fuels.
- Applicable from +10°C to +45°C.

### Field of use

- Antidust for cement floors.
- Consolidating product for surfaces subject to chalking and porosity and for incoherent masonry mortars.
- Primer for epoxy and epoxy-polyurethane floorings and coatings.
- Primer for bitumen surfaces to promote adhesion of elastomeric products like the **ELASTORAPID** and **ELASTOPAINT** series.
- Adhesive for construction joints.
- Antiabsorbent and adhesion promoter substituting wetting before the application of resins and cement mortars.

### Application

#### Support preparation

Support preparation is fundamental, thus the surface to be treated must be free of any pollutant, dry, coherent and must have a tear resistance 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.

#### Product preparation

Two-component product to be mixed thoroughly at the moment of employment with an helicoidal stirrer with a low number of cycles. Mix component B with component A for some minutes until a homogeneous mass without lumps and with a uniform colour is obtained.

The possible thinning must be done under stirring after having mixed the components.

Application

**ITALPOX 50** must be applied by roller, brush or airless spray gun depending on the use in the following quantities and ways:

As primer: apply 100-150 g/m<sup>2</sup> of product thinned 1:1 with water. Theoretical consumption of pure product 50-75 g/m<sup>2</sup>. The overlaying interval must be between 50 minutes and 10 hours depending on the environmental conditions.

As antidust paint: apply 100-150 g/m<sup>2</sup> of product thinned 1:1 with water. Theoretical consumption of pure product 50-75 g/m<sup>2</sup>. After at most 24 hours, apply a second coat of product thinned 1:0,5 with water with a consumption of 200-230 g/m<sup>2</sup>. Theoretical consumption of pure product 135-150 g/m<sup>2</sup>.

As adhesive for construction joints: apply 200-300 g/m<sup>2</sup> of product thinned 1:0,2 with water. Theoretical consumption of pure product 165-250 g/m<sup>2</sup>. The overlaying interval must be between 60 minutes and 3 hours.

As consolidating product for porous surfaces and for mortars: apply the product thinned 1:2 with water in the quantity necessary depending on the absorbency of the support.

Tools cleaning

The tools must be cleaned with water after use.

**Technical data**

Colour	Transparent	-
Density	1,05 ± 0,05 kg/l	EN ISO 2811-1
Viscosity at 20°C	6500 ± 1300 mPa·s	EN ISO 2555
Pot life at 22°C	40 ± 5 minutes	EN ISO 9514
Mixing ratio <i>By weight and by volume</i>	1:1	-
Theoretical consumption	50-200 g/m <sup>2</sup>	-
Theoretical thickness	90-120 µm	-
Non-volatile-matter content <i>By weight</i> <i>By volume</i>	47 % 46 %	EN ISO 3251
Compatibility on wet concrete	No blistering, no cracking, no flaking > 4,0 MPa	EN 13578
Bond strength by pull-off	> 3,0 MPa	EN 1542
Abrasion resistance	< 100 mg	EN ISO 5470-1 Wheel CS10 1000 g, 1000 cycles
CO <sub>2</sub> permeability	s <sub>D</sub> > 50 m	EN 1062-6
Water vapour permeability	s <sub>D</sub> < 5 m	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

**Curing**

At 22°C, 50 % R.H.	
- Touch dry	8 hours
- Complete curing	11 days


**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 12 months. Cold damages the product.

**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.

		
PERFORMACES IN COMPLIANCE WITH CERTIFICATION CE EN 1504-2		
Product type 3314		DoP 108
Characteristics	Product performance	Test Method
CO <sub>2</sub> permeability	$s_D > 50$	EN 1062-6
Water vapour permeability	Class I	EN ISO 7783-2
Liquid water permeability	$w < 0,1 \text{ kg/m}^2 \times \text{h}^{0,5}$	EN ISO 1062-3
Bond strength by pull-off	$> 2,0 \text{ N/mm}^2$	EN 1542
Crack bridging	NPD	EN 1062-7
Impact resistance	NPD	EN ISO 6272-1
Temperature shock	NPD	EN 13687-5
Abrasion resistance	$< 3000 \text{ mg}$	EN ISO 5470-1
Resistance to severe chemical attack	NPD	EN 13529
Hazardous substances	The hardened product does not release hazardous substances	
Reaction to fire	F	EN 13501-1
Linear shrinkage	NPD	EN 12617-1
Coefficient of thermal expansion	NPD	EN 1770
Cross-cut test	NPD	EN ISO 2409
Thermal compatibility	NPD	EN 13687-1
Resistance to liquids	NPD	EN ISO 2812-1
Slip/skid resistance	NPD	EN 13036-4
Exposition to artificial atmospheric agents	NPD	EN 1062-11
Electrical resistance	NPD	EN 1081
Compressive strength	NPD	EN 12190
Compatibility on wet concrete	No blistering, no cracking, no flaking	EN 13578

*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.*