

## From Project to Jobsite

### Primer for finishing coats for concrete pavements - Impregnators


## Tecnofix EP 40

IMPREGNATOR AGAINST PENETRATION RISKS


**CE** approved – Certificate n. 1305 - CPD - 0810  
**EN 1504-2 prospect ZA.1b**

Description 


Solvent based epoxy-poly-ammino primer. Product used as impregnator. It cures in room temperatures by drying and polymerisation. The product is transparent and two-components.

Characteristics 

Easy spreading and application.  
Excellent wetting properties.  
Excellent penetration properties and consolidation of not cohesive substrates.  
Good adhesion even on wet concrete, with no superficial water.

use 

For the preparation (base-coat and impregnation) of cement based surfaces to achieve good mechanical resistance. To be used before floor finishes or protective coatings. For industrial or civil applications.

Application 

**Tools:** short haired roller, alternatively long and wide brush (15mm), or by airless spray equipment with nozzle 18/21 and roller.

**Total thickness:** according to porosity

**Temperature of application:** 10 ÷ 35 °C and relative humidity of max 75 %.

**Clean tools with :** solvent for epoxy

### METHOD OF USE

#### PREPARATION OF THE SUBSTRATE

Prior the application of the protective coatings, it is necessary to verify the condition of the cementitious substrate: it must be clean and oil free, without fats, delaminating particles and free from cracks and discontinuities. The preparation of the substrate should be done choosing the proper following procedures:

- Elimination with proper equipment of the superficial dust when the substrate seems in good condition. Vacuuming and/or washing with pressured water is always recommended.
- Repair or level with cement based mortars or resin based materials, when the substrate has cracks or anomalies. In any case, apply the coating only on de-dusted and sound substrates;
- Sandblast or shotblast with steel abrasive grit is needed in case of not-cohesive parts.

Avoid the application on substrates contaminated with oil and/or greases.

#### APPLICATION

Make sure the room is well ventilated and follow the recommendations stated in the Material Safety Data Sheet on the use of PPE (Personal Protective Equipment).

Continue with the application of **Tecnofix EP 40** as follows:

- Pour component B in component A and mix for 1-2 minutes, or till complete homogenisation of the mix, using a suited drill with whip.
- Wait 10–15 minutes (induction time) and apply by short hair roller, or in case of big surfaces, by airless spray.
- wait till drying of the film, than proceed with the second layer.

**IMPORTANT :** when the temperature of the ambient and the substrate are less than 15 °C, it is necessary to heat separately the 2 components of the product to a maximum temperature of 30 °C (eventually en bain-marie) in order to maintain the low viscosity and the better applicability.

**DO NOT APPLY AT TEMPERATURE LOWER THAN 10°C.**

## From Project to Jobsite

### APPLICATIVE CONDITIONS

Temperature of substrate	:+10°C / +35°C
Humidity of substrate	:≤ 4%
Ambient temperature	:+10°C / +35°C
Relative humidity	:max 75%
Dew point	:the substrate and the product must be at a temperature of minimum 3°C above the dew-point to reduce the risk of condensation

### PACKAGING

☒ Supply - kg

component	a	b	a+b
pail	5	5	10

### STORAGE

Store the original and unopened packaging at a temperature between + 5°C and + 35°C. Product can be kept 12 months from the production date.

### TECHNICAL CHARACTERISTICS

APPLICATIVE CHARACTERISTICS at 20 ± 2°C	TEST METHOD	UNIT OF MEASUREMENT	TYPICAL VALUES	
Mixing ratio in volume	-	A : B	5 : 5	
Specific weight	EN ISO 2811-1	kg/l	~ 0,90	
Solid content in weight	-	%	30 ± 2	
Consumption	-	l/m <sup>2</sup>	0,150 ÷ 0,250	
Final dry thickness (150 g/m <sup>2</sup> )	EN 1062 - 1	μ	~ 45	
Pot life	EN ISO 9514	hours	~ 12	
Workability time of the mix	EN ISO 9514	hours	~ 4	
Touch dry	I – 54 (internal)	hours	~ 12	
Complete dry	-	days	7	
PERFORMANCE CHARACTERISTICS	TEST METHOD	UNIT OF MEASUREMENT	TYPICAL VALUES	Limit values according EN 1504-2
Capillary absorption and water permeability	EN 1062 - 3	Kg/m <sup>2</sup> x h <sup>0,5</sup>	0,027	< 0,1
Penetration depth	EN 1504 – 2 (PR. 3,n° 19)	mm	5	≥ 5
Adhesion to concrete , direct pull-out (tested in Tecnopav EP 165 cycle)	EN 1542	N/mm <sup>2</sup> Type of failure	> 2,5 A (concrete failure)	≥ 2 (with traffic)

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below