

Advanced  
Pavement  
Systems




Certified Quality System since **FEBRUARY 1993**

**From Project to Jobsite**

## Anti-dust impregnation treatment for concrete floors

### Tecnofix EP 280

PROTECTIVE COATING  
PHYSICAL RESISTANCE


CYCLE  approved – Certificate n. 1305 - CPD – 0808  
**EN 1504-2 table ZA.1f**

General 


Epoxy-polyamine two-component product, in water emulsion, not filled, solvent free, hardening at ambient temperatures by drying and polymerisation.

Characteristics 

Good spreadability  
Good adhesion even on damp substrates, but without water on the surface  
Non-yellowing  
**Ecological cycle**

Use 

As anti-dust impregnation for concrete floors in civil and industrial buildings.

Application 

**Tools:** short haired roller or wide hard brush (15 mm) or by airless spray equipment, nozzle 18/ 21 and roller.  
**Temperature of application:** 10 ÷ 35°C and relative humidity max. 60%  
**Clean tools with :** water

## APPLICATION METHOD

### SUBSTRATE PREPARATION

Prior to proceeding with the application of the protective coatings, it is necessary to verify the condition of the cementitious substrate: verifying in clean and absent of oil traces, greases, delaminating particles, free from cracks and discontinuities. Continue with the preparation of the substrate choosing the best suited procedure accordingly:

- Elimination with proper equipment of the superficial dust when the substrate seems in good condition. Recommended are vacuum aspiration and/or washing with pressured water;
- Repair or level with cement based mortars or resin based materials, when the substrate has cracks or anomalies. In any case, work only on de-dusted and cohesive substrates;
- Sandblast or grinding in case of un-cohesive parts.

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

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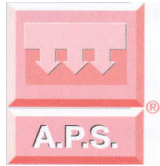
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### APPLICATION

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).

Proceed with the application of **Tecnofix EP 280**, one coat, as follows:

- Pour component B into component A and mix ratio for 2-3 minutes or until a completely homogeneous mixture with a suitable drill mixer at low speed.
- Only after having mixed the two components dilute with water, always under stirring, until the desired viscosity (we recommend a dilution ratio resin : water of 1:0.5 to a maximum of 1:2). **Do not add water to the two components before they are mixed.** In this case, the product may not cure properly.
- Apply with short hair roller or, in the case of large surfaces with airless spray.
- Always wait for the drying of the film applied before applying a possible second layer.

**Do not apply at temperature below 10°C.**

### APPLICATION CONDITIONS

Temperature of substrate	: +10°C / +35°C
Humidity of substrate	: ≤ 4%
Ambient temperature	: +10°C / +35°C
Relative humidity ambient	: max 60%
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
Pails	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.

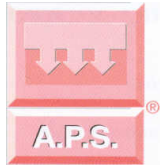
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### TECHNICAL CHARACTERISTICS

APPLICATIVE CHARACTERISTICS at 20 ± 2°C	Test method	Unit of measurement	Typical values
Mixing ratio in weight	-	A : B	50 : 50
<b>The technical characteristics are referring to the dilution water : product 1 : 1</b>			
Specific weight	EN ISO 2811-1	kg/l	~ 1,00
Solid residue in total in weight	-	%	30±2
Consumption per layer	-	g/m <sup>2</sup>	100 ÷ 150
Final dry thickness (per 100 g/m <sup>2</sup> )	EN 1062-1	μ	~30
Pot life	EN ISO 9514	minutes	120
Workability time	EN ISO 9514	minutes	60±10
Touch dry	I – 54 (intern)	hours	~8
Completely hardened	-	days	7

PERFORMANCE CHARACTERISTICS	TEST METHOD	UNIT OF MEASUREMENT	TYPICAL VALUES	Limit values according EN 1504-2
Capillary water absorption and permeability	EN 1062-3	Kg/m <sup>2</sup> x h <sup>0,5</sup>	0,0086	< 0,1
Wear resistance	EN 6272-1	Nm	> 10 (class II)	≥ 4 (class I) ≥ 10 (class II) ≥ 20 (class III)
Adhesion direct pulling on concrete	EN 1542	N/mm <sup>2</sup> Type of failure	> 3 A = failure in concrete	≥ 2 (with traffic)
Resistance to thermal shock	EN 13687-5	N/mm <sup>2</sup> Type of failure	> 3	≥ 2 ( with traffic)
Abrasion resistance (H22, 1000 cycles, load 1000g)	EN 5470-1	mg	605	< 3000

The above data are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product or for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website [www.tecnochem.it](http://www.tecnochem.it) where the most updated datasheets can be retrieved.

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