

**Advanced
Pavement
Systems**








Certified Quality System since **FEBRUARY 1993**

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Finishing system for concrete floors

Tecnopav EP 205 Ral (see colour palette)

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

<i>Description</i>		Epoxy-poly-ammino two-components product, in water emulsion, charged with fillers and pigments, which cures at normal temperatures.
<i>Characteristics</i>		Easy application Optimal adhesion Excellent chemical resistance Good abrasion resistance Ecologic cycle
<i>Use</i>		As finishing coat for floor slabs, with anti-dust properties, applied at low thickness (± 100 micron), for internal applications in industrial and civil buildings.
<i>application</i>		<i>Tools</i> : short haired roller; as alternative : wide hard brush (15 mm) or by airless spray equipment, nozzle 18/ 21 <i>Applied on</i> : Tecnofix EP 51 or Tecnofix EP 110 (see the Technical Data Sheet) <i>Temperature of application</i> : 10 ÷ 35 °C and relative humidity max. 60% <i>Clean tools with</i> : water other solvents 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:

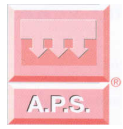
- Elimination with proper equipment of the superficial dust when the substrate seems in good condition. Vacuuming and/or washing with pressured water is always recommended.
- Repair or level with cement based mortars or resin based materials, when the substrate has cracks or anomalies. In any case, apply 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.

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CHOICE OF PRIMER

The use of a primer as base-coat is necessary to consolidate the substrate and to improve the adhesion of any consecutive protective coating. Depending on the type of substrate it is recommended to use the following primers :

- **TECNOFIX EP 51** with smooth and well compacted substrates, suited also in case of presence of superficial humidity.
- **TECNOFIX EP 110** with smooth and well compacted substrates, but perfectly dry (max. 3% superficial humidity)

(see also the relative datasheets)

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 **Tecnopav EP 205**, in 2 layers, as follows:

- Pour component B in component A and mix for 2-3 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.

The anti-skid effect can be obtained by the dusting of dry quartz sand (0,1-0,5 mm diameter), or with corundum, at a coverage of 2-3 kg/m², directly on the first layer of Tecnopav EP 205, still wet.

Remove the day after the excess sand and clean with compressed air. Apply the second layer. In this case, the consumption will be slightly higher due to the roughness of the quartz.

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.

APPLICATIVE CONDITIONS

Temperature of substrate	: +10°C / +35°C
Humidity of substrate	: ≤ 4%
Ambient temperature	: +10°C / +35°C
Relative humidity	: 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
pail	7,8	2,2	10

STORAGE

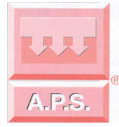
Store the original and unopened packaging at a temperature between + 5°C and + 35°C. Product can be kept 12 months from the production date.

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TECHNICAL CHARACTERISTICS

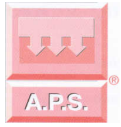
APPLICATIVE CHARACTERISTICS at 20 ± 2°C	Test method	Unit of measurement	Typical values	
Stoichiometric ratio in weight	-	A : B	7,8 : 2,2	
Solid residue in total in weight	-	%	57 ± 2	
Consumption per layer	-	g/m ²	100 ÷ 150	
Final dry thickness (per 150 g/m ²)	EN 1062 - 1	μ	~ 50	
Specific weight	EN ISO 2811-1	kg/l	~ 1,30	
Viscosity Brookfield LV	EN ISO 3219	cP	650 ± 150	
Pot life	EN ISO 9514	minutes	120 ± 20	
Workability time	EN ISO 9514	minutes	60 ± 10	
Touch dry	I – 54 (internal)	hours	~ 6	
Completely hardened	-	days	7	
PERFORMANCE CHARACTERISITICS	Test method	Unit of measurement	Typical values	Limit values according EN 1504-2
Capillary water absorption and permeability	EN 1062-3	Kg/m ² x h ^{0,5}	0,01	< 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 ² Type of failure	> 4 A = failure in concrete	≥ 2 (with traffic)
Resistance to thermal shock	EN 13687-5	N/mm ² Type of failure	> 3 A = failure concrete	≥ 2 (with traffic)
Abrasion resistance (H22, 1000 cycles, load 1000g)	EN 5470-1	mg	1197	< 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 where the most updated datasheets can be retrieved.

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