

Advanced
Pavement
Systems

From Project to Jobsite




Certified Quality System since **FEBRUARY 1993**


Finishing system for concrete floors

Tecnopav EP 185 Ral (see colour palette)

PROTECTIVE COATING
PHYSICAL STRENGTH

FIRE REACTION CLASS: **B_{fl} s1 (EN 13501-1)**


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

General 


Epoxy-ammino two-components product, charged with fillers and pigments, solvent free, hardening at room temperatures.

Characteristics 

Easy application
Optimal adhesion
Excellent chemical resistance
Good abrasion resistance

use 

For intern applications in civil and industrial buildings, for the realisation of a continuous pavement, which is anti-dust, aesthetic and resistant. The application thickness is medium-low (600 ÷ 1000 micron).
For anti-skid finishing, dry quartz dusting or other sands is advised.

Application 

Tools : short haired roller; as alternative : wide hard brush (15mm) or by airless spray equipment, nozzle 18/ 21. Can also be applied by dented trowel.
Applied on : Primer Tecnofix EP, the type of primer selected according the substrate conditions.
Temperature of application : 10 ÷ 35 °C and relative humidity max. 60%
Clean tools with : MEK, acetone or 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:

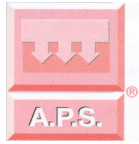
- Elimination with proper equipment of the superficial dust when the substrate seems in good condition. Vacuuming and/or washing with pressured water is always recommended.
- Repair or level with cement based mortars or resin based materials, when the substrate has cracks or anomalies. In any case, apply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

Edition: 05/2007
Date revision: 12/2011

Nr. rev.: 9

Protective system for concrete floors - Tecnopav EP 185
pag. 1/3



**Advanced
Pavement
Systems**



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

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)
- **TECNOFIX EP 170** for irregular, but cohesive substrates, suited also in case of presence of superficial humidity.
- **TECNOFIX EH 100** for irregular and wet, but cohesive substrates.

(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 185**, 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.
- 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 dry quartz sand dusting (max 0,3-0,9 mm diameter), or with corundum, at a coverage of 2-3 kg/m², directly on the first layer of Tecnopav 185, 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.

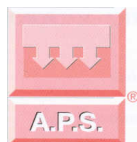
APPLICATION CONDITIONS

Temperature of substrate	: +10°C / +35°C
Humidity of substrate	: ≤ 3%
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	7,5	2,5	10



**Advanced
Pavement
Systems**



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

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 weight	-	A : B	75 : 25	
Solid residue in total in weight	-	%	~ 100	
Consumption per layer	-	g/m ²	250 ÷ 350	
Final dry thickness (per 300 g/m ²)	EN 1062 - 1	μ	~ 200	
Specific weight	EN ISO 2811-1	kg/l	~ 1,33	
Viscosity Brookfield LV	EN ISO 3219	cP	~ 2000	
Pot life	EN ISO 9514	minutes	75 ± 10	
Workability time	EN ISO 9514	minutes	35 ± 5	
Touch dry	I – 54 (internal)	hours	~ 6	
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 ² xh ^{0.5}	0,0016	< 0,1
Wear resistance	EN 6272-1	Nm	>4 (class I)	≥ 4 (class I) ≥ 10 (class II) ≥ 20 (class III)
Adhesion direct pulling on concrete (tested on all primer)	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	> 3 A = failure concrete >3	≥ 2 (with traffic)
Abrasion resistance (H22, 1000 cycles, load 1000g)	EN 5470-1	mg	806	< 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.

Edition: 05/2007
Date revision: 12/2011 Nr. rev.: 9

Protective system for concrete floors - Tecnopav EP 185
pag. 3/3