

Advanced
Pavement
Systems



Certified Quality System since **FEBRUARY 1993**


From Project to Jobsite





Protective coatings for concrete floors

Tecnoriv PL 100

Ral (see colour chart) or transparent

PROTECTIVE COATING CHEMICAL RESISTANT

CYCLE  approved – Certificate n. 1305 - CPD - 0809
EN 1504-2 prospect ZA.1g

<i>Description</i>		Two-component polyurethane product based on isocyanate of aliphatic nature, in solvent, charged with fillers and pigments, hardens at room temperature.
<i>Characteristics</i>		Excellent spreadability. Good chemical resistance. Good resistance to abrasion. Glossy and light stable. Also available in transparent.
<i>Use</i>		As topcoat in the realisation of a continue flooring system for internal and external floors in industrial buildings.
<i>Application</i>		<i>Tools:</i> by brush, short haired roller, or by airless spray with nozzle 18/21. <i>Applied on:</i> Tecnopav EP 903, or Tecnofix EP 40 or Tecnofix EP 110 (see Technical Datasheets) <i>Temperature of application:</i> 10 ÷ 35°C and relative humidity of max 50 %. <i>Clean tools with:</i> solvent for polyurethane.

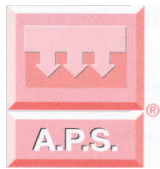
METHOD OF USE

PREPARATION OF THE SUBSTRATE

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 watching 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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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 110** with smooth and well compacted substrates, but perfectly dry (max. 3% superficial humidity)
- **TECNOFIX EP 40** for smooth and well compacted substrates, ideal also in presence of some superficial humidity.
- **LEGANTE TECNOPAV EP 903 (Binder)** for smooth and well compacted substrates, but perfectly dry (surface humidity max 3%)

(see 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).

After drying of the primer, the layer of Tecnopav EP 903 or other polymer coating applied, proceed with the application of **TECNORIV PL 100**, in two layers, as follows:

- Pour component B into component A and mix for 2-3 minutes or until a completely homogeneous mixture with a suitable drill mixer at low speed.
- Apply with short hair roller or, in the case of large surfaces with airless spray.
- Wait for the drying of the film applied before proceeding with the second coat.

Do not apply at temperature below 10° C.

APPLICATIVE CONDITIONS

Temperature of substrate	: +10°C / +35°C
Humidity of substrate	: ≤ 3%
Ambient temperature	: +10°C / +35°C
Relative humidity ambient	: max 50%
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	18	2 x 4,5	27	pigmented
Pail	18	2 x 4,5	27	transparent

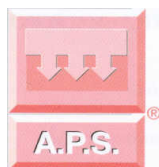
STORAGE

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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Protective coatings for concrete floors - Tecnoriv PL 100
pag. 2/3



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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	100:50	
Specific weight	EN ISO 2811-1	kg/l	~ 1,25	
Viscosity Brookfield LV	EN ISO 3219	cP	~200	
Solid residue in total in weight	-	%	60±2	
Consumption per layer	-	Kg/m ²	0.100±0.150	
Final dry thickness (per 100 g/m ²)	EN 1062-1	μ	~ 35	
Workability time	EN ISO 9514	minutes	60±10	
Pot life	EN ISO 9514	hours	~ 8	
Touch dry	I – 54 (intern)	hours	60±10	
Completely hardened	-	days	7	
PERFORMANCE CHARACTERISTICS	Test method	Unit of measurement	Typical values	Limit values according EN 1504-2
Capillary water absorption	EN1062-3	Kg/m ² /h ^{0.5}	0,0025	<0,1
Wear resistance	EN6272-1	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	EN13687-5	N/mm ² Type of failure	A=failure concrete >3	≥ 2 (with traffic)
Abrasion resistance (H22, 1000 cycles, load 1000g)	EN5470-1	mg	788	<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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Protective coatings for concrete floors - Tecnoriv PL 100
pag. 3/3