


From Project to Jobsite





Cycle for finishing of concrete flooring

Tecnopav PL 210

Ral (see colour palette) or transparent

PROTECTIVE COATING
PHYSICAL STRENGTH

CYCLE  approved – Certificate n. 1305 - CPD - 0810
EN 1504-2 table ZA.1f

<i>Description</i>		Two-components product based on aliphatic isocyanate polyurethane resins, in solvent, charged with fillers and pigments, which cures at room temperature.
<i>Characteristics</i>		Excellent spreading properties. Good chemical inertia. Good abrasion resistance. Glossy and light-stable film. Also available in transparent version (see Tecnoriv PL 100 transparent).
<i>Use</i>		As top coating in the realization of seamless resin floors for internal an external applications in industrial buildings.
<i>Application</i>		<i>Tools:</i> by brush or short haired roller, by spraying with airless equipment with nozzle 18/21. <i>Applied on:</i> Tecnopav EP 903 or Tecnofix EP 40 or Tecnofix EP 110 (see relative technical data sheets) <i>Temperature of application:</i> 10 ÷ 35 °C and relative humidity max 50 %. <i>Clean tools with:</i> diluent for polyurethane products

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 40** 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)
- **BINDER TECNOPAV EP 903** with smooth and well compacted and dry substrates (max. humidity 3%).

(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).

After curing of primer and Tecnopav EP 903, apply **Tecnopav PL 210**, in two layers, as follows:

- pour component B in component A and mix for 2-3 minutes, up to complete homogenization of mixing, by suitable drill mounted mixer at low speed.
- apply by short haired roller or, in case of very large substrates, by airless spraying equipment.
- only after the curing of the applied film, apply a second layer.

Do not apply at temperatures lower than 10°C.

APPLICATIVE CONDITIONS

Temperature of substrate	: +10°C / +35°C
Humidity of substrate	: ≤ 3%
Room temperature	: +10°C / +35°C
Relative humidity	: max 50%
Dew point	: the foundation and the product have to be at temperature at least 3°C higher than the dew point in order to reduce the risk of condensation

PACKAGING

☒ supply - kg

component	a	b	a+b	version
pails	18	2 x 4,5	27	pigmented
pails	18	2 x 4,5	27	transparent

STORAGE

In the original unopened packaging, at temperature between + 5°C and + 35°C: 12 months from the date of production.

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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	7,5 : 3,75	
Specific weight	EN ISO 2811-1	kg/l	~ 1,25	
Viscosity Brookfield LV	EN ISO 3219	cP	~ 200	
Solid content in weight	-	%	60 ± 2	
Pot life	EN ISO 9514	hours	~ 8	
Workability time of mixture	EN ISO 9514	minutes	60 ± 10	
Dry to touch	I – 54 (internal)	minutes	60 ± 10	
Complete hardening	-	days	7	
Consumption (per layer)	-	Kg/m ²	0.100 ÷ 0.150	
Final thickness (for 100 g/m ²)	EN 1062-1	μ	~ 35	
PERFORMANCE CHARACTERISTICS	TEST METHOD	UNIT OF MEASUREMENT	TYPICAL VALUES	LIMIT VALUES according to EN 1504-2
Capillary absorption and water permeability	EN 1062-3	Kg/m ² x h ^{0,5}	0,0025	< 0,1
Shockproofing	EN 6272-1	Nm	> 10 (classe II)	≥ 4 (classe I) ≥ 10 (classe II) ≥ 20 (classe III)
Adhesion for direct tensile strength (tested on all the cycles)	EN 1542	N/mm ² Type of breaking	> 4 A = breaking of concrete	≥ 2 (with traffic)
Resistance to the thermal shock	EN 13687-5	N/mm ² Type of breaking	> 3	≥ 2 (with traffic)
Resistance to abrasion (H22, 1000 cycles, charge 1000 g)	EN 5470-1	mg	788	< 3000

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. Changes of this data sheet can be found in our web-site www.tecnochem.it where you can find the same technical data sheet updated in real time.