



POLYURETHANE BASE COATING

TECNOFLOOR PU-3010 is a pigmented, glossy and fluid coating, based on polyurethane for concrete floors coating. We offer this aromatic single component polyurethane resin indicated for floor finishing.

USES

- Pavements of heavy traffic as for garages, car parks
- Pavements of high decontamination and cleaning requirements as in chemical and food industries
- Water waste tanks
- Sealing concrete

Performance	Depending on substrate and method of application
Repainting at 23 °C	6 ~ 8 hours
Curado total at 23 °C	± 7 days
Transitable at 23 °C	± 24 hours
Application method	Roller, notched trowel



GENERAL FEATURES

- Excellent bond and great coverage.
- High surface hardness, and slightly flexible
- Excellent bonding/adherence to concrete
- Chemical resistances medium level
- It is recommended that the same batch number is used in each area of application to ensure an even color is obtained.
- To reduce the risk of condensation, both the substrate and the ambient temperature should be a least 3 °C above dew point at the time of application.
- **TECNOFLOOR PU-3010** should be applied in dry conditions avoiding the presence of humidity or water coming from the surface to be coated or the substrate, whether at the time of application or subsequently (pressure from phreatic water level).



- In the event there is humidity in the substrate at the time of application, consult the technical specifications of our primers where the maximum humidity ranges are specified.
- Don't add water.
- Total curing takes 7 days; until then, avoid direct contact with water or other reactants.
- Do not apply at temperatures below 10 °C or above 30 °C and with relative humidity above 80%.

COLOURS

Ral chart

PRESENTATION FORMATS

Metal tins on this format:

SINGLE COMPONENT: 20 kg

EXPIRY

24 months at temperatures between 5° C and 25° C, provided it is stored in a dry place. Once the tin has been opened, the product must be used immediately.

APPLICATION

Substrate:

The concrete slab should have a minimum tensile strength of >1.5 N/sq. mm (MPa) and be free from grease, oil, concrete laitance, curing liquids or any other treatments, such as silicones or deteriorated paint.

The substrate should be open pore and, therefore, it is essential to commence by milling or sand blasting, followed by dust aspiration. Sanding is not recommended as a rough, open pore surface is needed to guarantee fixation of the primer.

The substrate can be damp, but it should be noted that **TECNOFLOOR PU-3010** may not be applied on concrete that exudes water or in areas where the phreatic water level could affect bonding of the system's components, which could cause the coating to bubble.

Primer:

It's essential to first of all to prime the surface using our primers (according the kind and conditions of the support): PRIMER EPw-1070/PRIMER PU-1000, in order to improve surface bonding and saturate the concrete's pores, clogging them to ensure a perfect bond with the surface and absence of bubbles in the subsequent finish.

Concrete must be over 28 days old (finished setting process), or a moisture content <4%.

Do not apply **TECNOFLOOR PU-3010** on concrete exudation of water or in areas where the water table may affect the adhesion of the system components.

After applying the primer it is necessary to wait between 6 hours and 8 hours maximum for the application of **TECNOFLOOR PU-3010**, under 23 ° C and 80% relative humidity.

While fresh cleaned with DESMOPOL SOLVENT, once hardened only by mechanical means.

APPLICATION METHODS

Paint:

Apply **TECNOFLOOR PU-3010** using a roller (min. two layers). Consumption is approximately 150-250 g/sqm. and layer applied, depending on the roughness of the substrate



COMPLEMENTARY PRODUCTS

The **TECNOFLOOR PU-3010** polyurethane system may be complemented with the following products as a means of protection or to improve its physical-mechanical properties depending on its exposure, the desired finish or the type of substrate.

PRIMER EPw-1070 | PRIMER PU-1000: Primers for prior application supports to improve adherence and regularize the flatness of the support. These primers' applications regularize the humidity of the support (see the degrees of permissibility in their data sheets).

Performance may vary depending of the type of support, nature or surface texture. Check the technical specifications of each product.

HANDLING AND TRANSPORT

These safety recommendations for handling, are necessary for the implementation process as well as in the pre-and post, on exposure to the loading machinery.

- **Respiratory Protection:** When handling.
- **Skin protection:** Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking or smoking.
- **Eye / Face:** Wear safety goggles to prevent splashing and exposure to particles in air.
- **Waste:** Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations.

Anyway, consult the safety data sheet of the product, are publicly available



TECHNICAL DATA

Density at 23 °C	±1,15 g/cm³
Initial dry at 23 °C	±40 minutes
Tack free at 23 °C	2~3 hours
Solid contents	±65
Total dry at 23 °C	±7 days
Repaint time at 23 °C	6 ~ 8 hours
Walk able(pedestrian)	±24 hours
Hardness Shore at 7 days at 23 °C	>60
Tensile strength at 23 °C	>30 N/m² (MPa)
Concrete adherence	>2,2 N/m² (MPa)
Wear resistance	<50 µm
Support and environmental temperature range (application)	10 °C~30 °C
Support and environmental temperature range (service)	-40 °C~90 °C
Maximum relative environmental humidity	?80%
Water absorption	0,5%
VOC	250g/l
Dilution (it's not necessary; could be used)	? 10%

CHEMICAL RESISTANCES

* Resistance's measurements were measured in permanent immersion during 21 days at 23 °C.

Citric acid 10%	++
Diesel	+++
Salt 20%	+++
Ammonium 10%	+
Potassium hydroxide 20%	++
Sodium hydroxide 20%	++
Hydrochloric 10%	+
Phosphoric acid 10%	+
Sulfuric acid 10%	+
Ethanol 10%	++

+++ Resistant

++ Resistant with a lighter lose of properties

+ Resistant to spills or splashes

