



100% SOLIDS EPOXY COATING

TECNOFLOOR T-3020, is a fluid pigmented coating, epoxy based of high chemical and mechanical resistance for concrete pavements coating . 100% solids epoxy, is formed by two components, as indicated suitable for pavement and floor finishing. It is applied manually, using a roller or brush.

USES

- Pavements of heavy traffic as for garages, car parks
- Pavements of high decontamination and cleaning requirements as in chemical and food industries
- Pavements where required an anti-slipping finished surfaces (multilayer application)
- As protection against liquid spills and aggressive chemicals

Yield	250 ~ 500 g/m ² / layer
Repaint at 23 °C	12 ~ 24 hours
Dry time at 23 °C	± 24 hours
Application method	By roll, brush or squeegee



GENERAL FEATURES:

- Excellent bond and great coverage.
- Breathable (permeable to steam).
- 100% solids.
- High chemical resistant.
- No solvent, odorless
- Satin-gloss finish.
- It is recommended that the same batch number is used in each area of application to ensure an even colour 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 T-3020** 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.
- Given that it is an epoxy, outdoor application should be avoided as its initial colour will yellow if exposed to UV rays. When applying in such outdoor conditions, finish with a top layer of coloured TECNOTOP- 2C.
- Total curing takes 7 days; until then, avoid direct contact with water or other reactants.
- Do not apply at temperatures below 8 °C or above 30 °C and with relative humidity above 80%.
- If you add solvent, max 5% and ever in the self levelling system.
- Do not apply, under any circumstances, on surfaces treated with high alkalinity products.
- It is important to ensure good ventilation in the area treated to promote **TECNOFLOOR T-3020** curing and prevent colour tone changes in the finish.

COLOURS

Grey, brown, green.

PRESENTATION FORMATS

Metal tins on these two formats:

COMPONENT A: 21 kg + COMPONENT B: 4 kg

COMPONENT A: 4 kg + COMPONENT B: 1 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 T-3020** 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) 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.



- The primer should be left to dry for between 5 to 7 hours at the most before applying the epoxy paint **TECNOFLOOR T-3020**; ambient temperature should be around 23 °C with no more than 80% relative humidity.

Mixing:

- **TECNOFLOOR T-3020** comes pre-weighed in the appropriate amounts for subsequent mixing. Partial mixes of the pre-weighed components is not recommended.
- Shake the tin containing Component A and then pour in the contents of Component B. Mix using a rod stirrer at low speed until the mixture is thoroughly combined. Make sure you stir well around the edges and at the bottom of the tin.

Cleaning:

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

APPLICATION METHODS

Paint:

- Apply **TECNOFLOOR T-3020** using a roller (min. two layers). Consumption is approximately 250-500 g/sq. m. and layer applied, depending on the roughness of the substrate

Multilayer:

- Apply **TECNOFLOOR T-3020** using a roller and then sprinkle the surface with silica sand until it is saturated. Once hardened sweep away the excess sand and lightly sand down the surface, aspirating the residue. A rubber fork and then a short nap roller may be used to give the coating its finish. Consumption is approximately 250-500 g/sq. m. and layer applied, depending on the roughness of the substrate.

Self levelling:

- In this type of application is possible to mix graded clean and dry quartz sand 0,1 - 0,5 mm. In mixing ratio of 1:0.7 or 1:1 depending on the temperature and desired workability
- For this type of application, the material is poured on the support, then distributing it with a notched trowel with which you can control thickness and consumption. Once past 20 minutes is necessary to pass a spiked roller with which the air outlet will facilitate within the material
- The minimum thickness to get self levelling is 2 mm. without sand and, 3 mm. mixed with. The performance is more or less 1,65.kg/m²/mm (pure material), depending on the degree of roughness of the substrate.

COMPLEMENTARY PRODUCTS:

The **TECNOFLOOR T-3020** epoxy 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 EP-1020**: Mixed with silica sand in a ratio of 1:1.5, this is used to fill in depressions in concrete surfaces, rapidly providing a firm and fast drying even base.
- **PRIMER PU-1050 | PRIMER EPw-1070 | PRIMER PUc-1050 | 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



PERFORMANCE TABLE

(depending on substrate and application system used):

PRODUCT	PAINT	MULTILAYER	SELF LEVELLING
PRIMER EPw-1070	250 ~ 750* g/m ²		
PRIMER EP-1020	250 ~ 400 g/m ²	400~700 g/m ²	
TECNOFLOOR T-3020	250 ~ 500 g/m ² / layer	1,65 kg/m ² /mm	

* This maximum value is used only as a vapor barrier application.

All values that are included in the table above, are approximate and may fluctuate due to the situation of the support or the methodology employed.

TECHNICAL DATA

Density	1,65 g/c ³
Solids	100 %
Viscosity ISO nº 6 at 23 °C	250 cps
Pot life at 23 °C	±50 minutes
Initial dry at 23 °C	±40 minutes
Recoat time at 23 °C	6 ~ 8 hours
Total curing at 23 °C	±7 days
Transitable(pedestrian)	±24~48 hours
Hardness Shore D at 7 days	>80
Concrete adherence	>2 N/m ² (MPa)
Support and environment range of temperature (of applications)	8 °C ~ 30 °C
Max. environment moisture	80 %
Temperature resistance (applied)	-20 °C ~ 80 °C
Abrasion resistance TABER UNE EN ISO 5470-1:1999	155 mg (C5-17 1kg)

Approximately values



CHEMICAL RESISTANCES

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

INORGANIC ACIDS

Sulfuric 10%	++	(loss of color)
Hydrochloric 37%	++	(loss of color)
Nitric 20%	++	(loss of color)
Phosphoric 20%	+++	

ORGANIC ACIDS

Citric 10%	+++	
Lactic 10%	++	(loss of color)
Acetic 10%	++	(loss of color)
Formic 10%	+	
Tartaric 10%	+++	

ALKALIES

Sodium hydroxide 50%	+++	
Potassium hydroxide 50%	+++	
Ammonia 25%	+++	

SOLVENTS

White spirit	+++	
Xylene	+++	
Gasoline	+++	
Diesel	+++	
Acetone	+ / +++	(casual exposure)

+++ Resistant

++ Resistant with a lighter lose of properties

+ Resistant to spills or splashes

