



## TECNOFLOOR T-3020 - TWO-COMPONENT, AROMATIC, 100% SOLIDS EPOXY RESIN FOR FLOORING

TECNOFLOOR T-3020 is a two-component pigmented, bright, and fluid coating. This product is 100% solids, aromatic epoxy-based resin that provide a seamless, wearing suitable for the traffic of wheeled vehicles in areas used for car parks.

### USES

Epoxy resin for flooring and protection in the next uses:

- Traffic areas as garages, car parks, or industrial floorings
- Floorings of high decontamination and cleaning requirements in the chemical and food industries
- As protection against liquid spills and aggressive chemicals

**NOTE:** call our technical department about the application to other supports or situations.

density	1,55 g/cm <sup>3</sup>
Viscosity	3.000 - 3.200 cps
dry time	±4-6 hours
cured time	±7 days
application method	by roll, notched trowel, or squeeze



### COLORS

	Green RAL 6001
	Grey RAL 7042
	Red RAL 3016
	RAL



## GENERAL FEATURES:

- Excellent bond and great coverage
- 100% solids, no water, no solvent (odorless).
- Chemical resistance (check our Technical Department)
- Don't add water. If you add solvent, max 5% and ever in the self-leveling system.
- It is recommended that the same batch number is used in each area of application to ensure an even color is obtained.
- TECNOFLOOR T-3020 d 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).
- To reduce the risk of condensation, both the substrate and the ambient temperature should be a least 3 °C above the dew point at the time of application.
- 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.
- Given that it is epoxy, an outdoor application should be avoided as its initial color will be yellow if exposed to UV rays. When applying in such outdoor conditions, finish with a top layer of colored TECNOTOP range, although in this case, the surface loses its initial brightness
- 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 color tone changes in the finish.
- Don't use heaters blowers to accelerate the drying time.
- Total curing takes 7 days; until then, avoid direct contact with water or other reactants.

## PACKAGING

Metal tins on these two formats:

- COMPONENT A: 20,60 kg + COMPONENT B: 4,40 kg
- COMPONENT A: 4,12 kg + COMPONENT B: 0,88 kg

## COLORS

Grey, brown, green.

## SHELF LIVE

12 months at temperatures between 5° C and 35° C, provided it is stored in a dry place. Once the tin has been opened, the product must be used immediately.

## APPLICATION METHOD

The following factors should be considered during the application process:

### Surface

- The concrete slab should have a minimum tensile strength of >1.5 N/mm<sup>2</sup> and be free from grease, oil, concrete laitance, curing liquids, or any other treatments, such as silicones or deteriorated paint.
- The substrate should be has the pore opened and, therefore, it is essential to sanding or grinding (regarding the support conditions), followed by dust aspiration.
- Concrete must be more than 28 days old (finished setting process), or have a moisture content <4%.
- The substrate can be damp, but it should be noted that TECNOFLOOR T-3020 may not be applied to concrete



that exudes water or in areas where the phreatic water level could affect the 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 PRIMER EP-1010/EP-1020/PRIMER EPw-1070 (according to the kind and conditions of the support) 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 6 to 8 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 are not recommended.
- Shake the bucket 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.
- In the case of adding aggregates to increase surface roughness, do the mixture described above first and, once made, add the aggregate to obtain a homogeneous product.

### Cleaning

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

## APPLICATION TYPOLOGIES

### Paint

- Open the buckets, homogenize both components by means of mechanical agitation equipment.
- Mix the two components until getting a homogeneous product mixed
- Apply the first coat of TECNOFLOOR T-3020. For the application, use a brush, short hair roller or air-less gun can be used. Approximate consumption.: 275-300 g/sqm
- Wait for it to dry completely.
- Apply the second coat. A brush, short hair roller, or air-less gun can be used for the application. Approximate consumption.: 275-300 g/sqm
- The third coat of TECNOFLOOR T-3020 may be necessary on very absorbent substrates or for very light colors.

### Multilayer

- This system provides a non-slip surface to give the coating a slip resistance level of >45 (Class 3).
- Open the buckets, homogenize both products by means of mechanical agitation equipment.
- Mix the two components and mix until a homogeneous product mixture is obtained.
- Apply the first coat of TECNOFLOOR T-3020. For the application, a brush, short hair roller can be used. Approximate consumption.:300 g/sqm
- Wait for it to dry completely.
- Sprinkle the surface with siliceous aggregate until saturation.
- Once hardened, the remaining aggregate must be removed by sweeping.
- Lightly sand the surface and then vacuum the residues generated.
- Apply a second coat of TECNOFLOOR T-3020 with the help of a rubber rake, finishing with a short hair roller. Approximate consumption.:400 g/sqm
- The presence of high relative ambient humidity during application and drying time can give a matte finishing or even whitish due to the difficulties of water drying. To prevent this, we recommend keeping the work area during the application, and the next twenty-four hours, it is possible, by mechanical means.



### Self-leveling

- In this type of application is possible to mix graded clean and dry quartz sand 0,1–0,5 mm. In mixing ratio of  $\pm 1:0.7$  or  $\pm 1:1$  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 recommended thickness to get self-leveling is 1,5 mm. without sand and, 3 mm. mixed with. The performance is more or less 1,65.kg/sqm/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-1010/EP-1020: a specific primer for this kind of epoxy paint; for improving the adhesion system and optionally for filling and capping existing voids on surfaces of concrete, mixed with dry silica sand in a  $\pm 1:4$ . This achieves a fast, base fills consistent and rapid drying.
- 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 datasheets).

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

### PERFORMANCE TABLE (DEPENDING ON SUBSTRATE AND APPLICATION SYSTEM USED):

product	paint	paint multilayer	self-leveling
PRIMER EPw-1070		$\pm 150-200$ g/sqm/coat	
PRIMER EP-1020/ PRIMER EP-1010		$\pm 250- 300$ g/sqm/coat	
TECNOFLOOR T-3020	$\pm 275-300$ g/sqm/coat	$\pm 300$ g/sqm/coat + spreading of silica sand+400 g/sqm/coat	1,55 kg/sqm/mm

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.

### HEALTH AND SAFETY

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.

- Skin protection: Use rubber gloves, remove them 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 the 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 of a material data sheet of the product (MSDS)

## TECHNICAL DATA

PROPERTIES		VALUES
Density	ISO 1675	1,55 g/cm <sup>3</sup>
Viscosity	ISO 2555	3.000 - 3.200 cps
Density comp. A/B	ISO 1675	1,65 g/cm <sup>3</sup> / 1,15 g/cm <sup>3</sup>
Viscosity comp. A	ISO 2555	4.500 - 4.900 cps / 600 - 800 cps
Solids content	ISO 1768	100 %
VOC (volatile organic compounds)		10 g/l comp. A+ 0g/l comp. B
Hardness Shore D at 7 days at 23°C	DIN 53.505	>95
Concrete adherence		>2 MPa
Pot life		±50 minutes
Dry time		4-6 horas
Total curing		±7 days
Recoat time		6~8 hours
Ready to use: walkable/traffic car at 23°C		±24~48 hours / 7 days
Support/ambiance application temperature range		5 °C ~ 35 °C / 10 °C ~ 30 °C
Ambiance service temperature range		-20 °C ~ 80 °C
Abrasion resistance TABER	EN ISO 5470-1:1999	155 mg (C5-17 1kg)
Max. environment moisture		80 %

Results were performed in the laboratory at 23°C and 50% RH, under controllable conditions. These values may vary depending on the application, climatology, or substrate conditions.



## CHEMICAL RESISTANCES

### 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

**NOTE:** resistance measurements were measured in permanent immersion for 21 days at 23 °C.

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