TECNOFLOOR TW-3040 - TWO COMPONENT EPOXY RESIN FOR FLOORING

Two component, pigmented and fluid coating, epoxy, aromatic water-based, that provides a seamless, wearing suitable for vehicular of wheeled vehicles in areas used for car parks. Indicated as a finishing for car parks, and industrial flooring.

CE

USES

For application in the following situations:

- Vehicular areas as garages, car-parks, industrial and commercial floorings

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

Density	±1.30 g/cm³
Viscosisty	±1,500 cps
Dry time	4~5 hours
Walkable/traffic cars	±24 hours /7 days
Application method	By roll

COLORS

	Green RAL 6001
	Gray RAL 7042
	RAL

* For special pigmentations and minimum quantities, please see page Sale conditions on the price list

GENERAL SPECIFICATIONS

- 100% solid, colored epoxy resin, with high fluidity and covering power, which once dry forms a coating with high

surface hardness, continuous, completely adhered to the substrate and with great adhesion, without joints or overlaps and easy to clean and maintain.

- It holds a CE marking on the basis of a statement made DoP Declaration of Performance (DoP) under the UNE-EN 13813:2014
- Solvent-free, odorless (100% solids). Do not add water or solvent in any case
- It has obtained the **A** classification according to the ISO 16000 standard **(Air emissions)** for emissions of volatile organic compounds (VOCs).
- It has water potable contact certification, and alimentary contact certification (EN 1186-1:2002, EN 1186-3:2002, EN1186-14:2003), and the European certification for protection of a structural concrete (EN1504-2:2005)
- The application must be carried out on firm, resistant supports, and in conditions of no presence of moisture in the substrate or water from the substrate or backsplash, either at the time of application or afterward (pressure from the water table...). In the case of existing humidity in the substrate at the time of application, consult the technical data sheets of our primers where the ranges of resistance to humidity are specified.
- The final product is made by mixing the two components delivered in the kit. In case of making applications with partial mixture of both components, respect the mixing ratio at all times so that the final product obtains the best product conditions.
- Use the same batch of product in each area of application to avoid the minimum and possible color change

PACKAGING

Metal tins, in these two kit formats:

- LARGE KIT: 20.00 kg + 5.00 kg
- SMALL KIT: 4.00 kg + 1.00 kg

STORAGE AND SHELF LIFE

12-months shelf life is stored in original containers in a dry environment at a temperature between 5-35 ºC *(41-95°F)*. Keep away from direct sunlight, extreme heat, cold or moisture. Once the tin has been opened, the product must be used.

MIXING PROCEDURE

Open pails of both components and homogenize each one by mixing equipment at medium speed. Pour component B into the container of component A. Mix using electric mixing equipment at medium speed, until a homogeneous product is obtained. I n case of doubt, apply in a limited area to check

APPLICATION METHOD

Concrete/mortar substrate: Concrete should be completely cured (concrete curing takes 28 days) or, in any case, the maximum level of humidity allowed for the substrate should be verified, depending on the primer used. Concrete must be strong, cohesive and dry, having a correct planimetry, high surface resistance, eliminating laitance, graise, oils or release agents, without excessive irregularities. Therefore, the previous action of sanding, polishing, milling or shot-blasting will be assessed by the applicator to achieve a preparation of the substrate according to ICRI Guide 03732, CSP values 3 to 5. Existing holes or areas with a lack of material must be repaired using some of our epoxy resins: Primer EP-1020/Primer EP-1010. Mastic PU must be used on fissures or small cracks on the surface.In joints: remove old material, clean and fill with Mastic PU. Complement with a Tecnoband 100 band on the upper part. In structural/expansion joints: remove old material, clean and fill with Mastic PU. Complement with specific elastic bands and Tecnoband 100. General cleaning of the substrate. PRIMING: use Primer PU-1050/Primer PUc-1050, Primer EP-1020, Primer EP-1010 or Primer WET, depending on the existing moisture in the substrate. Resin application

NOTE: For other types of supports, weather conditions or the substrate to be applied, consult our technical department.

APPLICATION TYPOLOGIES

Paint : Apply a first layer of the resin by brush, short-haired roller. Consumption approx.: 275-300 g/sqm. After dry time, apply a second coat. For the application, a brush or short-haired roller can be used. On very absorbent substrates or for very light colors, it may be necessary to apply a third layer of resin.

Multilayer: This system provides a non-slip surface to give the coating a slip resistance level of >45 (Class 3). Apply a first coat of the resin by brush, short-haired roller. Consumption approx.: 300 g/sqm. After dry time, sprinkle the surface with aggregates (Silica Sand) 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 the resin by brush, short-haired roller. Consumption approx.: 250 g/sqm

HEALTH AND SAFETY

Respiratory Protection: When handling or spraying use an air-purifying respirator. 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 the air. Waste: Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations. Re-occupancy of the work site without respiratory equipment is minimum 24 hours providing the correct ventilation for the area sprayed. Contractors and applicators must comply with all applicable and appropriate guidelines for storage and safety guidelines.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. Dispose waste in accordance with star or/and local regulations.

TECHNICAL AND CHEMICAL PROPERTIES

PROPERTIES	VALUES
Density ISO 1675	±1.30 g/cm³
Viscosity ISO 2555	1,500 cps
Density comp. A/B ISO 1675	±1.30 g/cm³ / ±1.10 g/cm³
Viscosity comp. A/B ISO 2555	1,400 - 1,800 cps / 600 - 700 cps
Mixing ratio (in weight)	4:1
Solids content ISO 1768	±65 %
Hardness Shore A at 7 days DIN 53.505	>75
VOC content SCAQMD rule 1113	PASS: < 1g/l
VOC Emission	Class. A+(French VOV Regulation)
Antiskid UNE 41901:2017 EX	Class 3 (PTV=59), suitable for surfaces with a slope >6%, outdoor wet areas (pools and wetrooms) / application with addition of Tecnoplastic C (7-8% by weight)
Liquid water permeability EN 1062-3:2008	W< 0.1 kg/sqm*h*0.5
Abrasion resistance TABER (EN ISO 5470-1:1999)	Loss of mass = 262 mg
Mass drop test UNE-EN ISO 6272-1:2004	4 Nmm / no cracks, noSin fisuras, sin escamas
Carbon dioxide permeability UNE-EN 1062-6:2003	Sd>50
Water vapor transmission rate UNE-EN ISO 7783:2002	7.93 g/sqm/day
Resistance to strong chemical attacks	Shore D after 3 days without pressure:86 (<50%)
Determination of direct traction adhesion UNE-EN 1542:2000	2 MPa/ Break A (100%)
Adherence resistance UNE-EN 13892-8	3.4 MPa
Impact resistance UNE-EN ISO 6272-1	>14,7 Nm / At 1500 mm no damages. Crater diameter: 4.4 mm
Wear resistance UNE-EN 13892-4	30 µm
Reaction to fire ISO-11925-2	Efl

Pot-life / drying time / curing time / recoat time	±60 minutes / 4~5 hours / ±7 days / 5~7 hours
Walkable (pedestrian/ vehicular)	24 hours / 7 days
Application temperature range (substrate / environment)	8~30ºC/ 8~30ºC *(46~86ºF/46~86ºF)*
Use temperature Range (environment)	-20~80 ºC *(-4º~176ºF)*
Max. environment moisture	±80 %

Results performed in the laboratory at 23ºC (73ºF) and 50% RH, under controllable conditions. These values may vary depending on the application, climatology, or substrate conditions.