# TECNOFLOOR PU-3060 - TWO COMPONENT POLYURETHANE RESIN FOR FLOORING

Two component , colored, aromatic and fluid polyurethane resin as a cotaing. Once cured, it forms a continuous seamless high resistant to abrasion and wear coating. For flooring and coating surfaces for pedestrian and vehicular in commercial or industrial uses.

## USES

For application in the following situations:

- Vehicular areas as garages, car-parks, or industrial floorings
- In areas such as the chemical and food industries and commercial areas

**NOTE**: call our technical department about the application to other substrates or scopes of use

| | |
|---|---|
| Density | 1.20 g/cm³ |
| Viscosity | 1,500±500 cps |
| Dry time | 2-4 hours |
| Curing time | ± 7 days |
| Walkable/traffic cars | ± 24 hours / 5 days |
| Application method | By roll, notched trowel, squeegee |


## COLORS

| | |
|---|---|
| | Gray RAL 7042 |
| | RAL |

## GENERAL SPECIFICATIONS

- 100% solid, colored polyurethane 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 classification C according to the ISO 16000 standard **(Air emissions)** for emissions of volatile organic compounds (VOCs).
- The application must be carried out on firm, resistant substrates, 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

Metallic pail kit, in two different formats:

- LARGE KIT:19.5 kg + 5.5 kg
- SMALL KIT: 3.9 kg+ 1.1 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. Apply the resin

**NOTE**: For other types of substrates, 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. Consumption approx.: 275-300 g/sqm. On very absorbent substrates or for very light colors, it may be necessary to apply a third layer of resin.

**Multilayer:** 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.: 300 g/sqm

**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 ±1:0.7 or ±1:1 depending on the temperature and desired workability. Pour the resin on the substrate, then distributing it with a notched trowel with which you can control thickness and required yield. Once past 20 minutes is necessary to pass a spiked roller with which the air outlet will facilitate within the material. The total minimum recommended yield is ±1.20 kg/sqm/mm (pure material), depending on the degree of roughness of the substrate.

## 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 | ±1.20 g/cm³ |
| Viscosity ISO 2555 | 1,500±500 cps |
| Density compounds A/B ISO 1675 | ±1.30 g/cm³ / ±1.10 g/cm³ |
| Viscosity compounds A/B ISO 2555 | 2,000 - 2,500 cps / 600-700 cps |
| Mixing ratio (in weigth) | 3.54:1 |
| Solids content ISO 1768 | 100% |
| Tensile strength ISO 527-3 | >15 MPa |
| Elongation at break ISO 527-3 | ±75% |
| Hardness shore A/D at 7 days DIN 53.505 | >93 / >60 |
| VOC Content ASTM D-2369 | 14 g/l (PASS) |
| VOC Emission | Class. C(French VOV Regulation) |
| Radon diffusion coefficient ISO-DTS 11665-13 | PASS |
| Watertihgness EN-1928 | PASS |
| Antiskid UNE 41901:2017 EX | PTV=47 (Class 3, external, wet surfaces as pools or wet rooms, slope more than 6%, including steps) / multilayer application, surface spreading with Silica Sand ( 800-1000 g/sqm ) |
| Adherence resistance UNE-EN 13892-8 | 3.5 MPa |
| Impact resistance UNE-EN ISO 6272-1 | >14.7 Nm / At 1500 mm. no damages. Crater diameter: 4.2 mm |
| Wear resistance UNE-EN 13892-4 | 20 µm |
| Reaction to fire ISO-11925-2 | Efl |
| Reaction to fire for floors ISO-9239-1:2100 | Bfl s1 |
| Pot life /dry time/curing time / recoat time | ±35 minutes / 2~4 hours / ±7 days / 5~24 hours |
| Ready to use: walkable/vehicular | ±24 hours / 7 days |
| Application temperature range (substrate / environment) | 5~35ºC / 5~30ºC *(41~95ºF/41~86ºF)* |
| Use temperature Range (environment) | -40~90 ºC *(-40~194ºF)* |
| 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.*