



## TECNOFLOOR PU-3010 - AROMATIC, SINGLE COMPONENT POLYURETHANE SOLVENT BASED RESIN

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

### USES

Polyurethane resin for flooring and protection in the next uses:

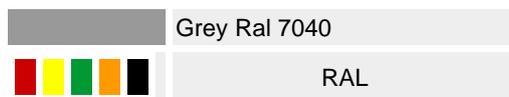
- Pavements traffic as for garages, car parks
- Pavements of high decontamination and cleaning requirements as in chemical and food industries
- Water waste tanks
- Sealing concrete

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

density at 23°C	1,15 g/cm <sup>3</sup>
consumption	150 g/m <sup>2</sup> /coat
tack-free time at 23°C	2~3 hour
total curing at 23 °C	± 7 days
recoat time at 23 °C	6~8 hour
passable (pedestrian) at 23 °C	± 24 hour
application method	by roll



### COLORS



### GENERAL FEATURES

- Excellent bond and great coverage.
- High surface hardness, and slightly flexible
- Excellent bonding/adherence to concrete
- Chemical resistance 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 at least 3 °C above dew point at the time of application.
- TECNOFLOOR PU-3010 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).
- 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%.

## PACKAGING

Metal tins 20 kg

## SHELF LIFE

24 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

In general, you should take the following factors:

- repair the surface (fill in depressions, eliminate unevenness, eliminate any old waterproofing, etc.)
- singular points preparation(perimeter, sinks / evacuations, expansion joints or structural)
- clean up the surface or substrate, removing any dust, dirt, grease, or efflorescence.
- the surface has to be enough compressive strength of adhesion of the membrane. If it were not so, we will proceed to apply our primers resins to achieve this target
- in case of doubt of all above, apply before in a restricted area and to check

TECNOFLOOR PU-3010 can be applied to many different surfaces and the procedure will vary depending on its nature or state. Below we set out some of the applications for the most common surfaces; for other surfaces not described, please contact our technical department.

### Cement or concrete surfaces

- any depressions or voids should be repaired using a mix (ratio of  $\pm 1:4$ ) of our epoxy resin PRIMER EP-1020 mixed with silica sand.
- fill joints with MASTIC PU, polyurethane mastic
- the 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.
- any concrete latencies or release agents should be eliminated and an open-pore surface achieved by grit blasting, milling, or sanding.
- clean up the surface or substrate, removing any dust, dirt, grease, or efflorescence.
- apply PRIMER PU-1050/PRIMER PUC-1050/PRIMER PU-1000/PRIMER EPw-1070, with a yield of approximately 250 g/m<sup>2</sup> (two layers) always depending on the state of the substrate or the surface's porosity.
- apply by roll, thin layers of colored TECNOFLOOR PU-3010

## COMPLEMENTARY PRODUCTS

TECNOFLOOR PU-3010, maybe 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  $\pm 1:4$ , or calcium carbonate in ratio  $\pm 1:2$ , 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: these several resins are applied on the substrate beforehand to improve bonding and level the surface, as well as regulating the humidity in the substrate (see permitted levels in their technical specifications). Consumption may vary depending on the type of support, nature, or surface texture. Consult the technical specifications of each product or our technical department.
- MASTIC PU: polyurethane mastic for filling joints (use together with TECNOBAND 100 when necessary).

## 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 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.

Anyway, consult the safety data sheet of the product(MSDS) or contact our technical department.

## TECHNICAL DATA

PROPERTIES	VALUES
Density at 23 °C ISO 1675	$\pm 1,15 \text{ g/cm}^3$
Viscosity at 23°C ISO 2555	300 $\pm$ 100 cps
Solid contents ISO 1768	$\pm 65 \%$
VOC (volatile organic compound)	250 g/l
Concrete adherence	>1,5 MPa
Initial dry at 23 °C	$\pm 40$ minutes
Tack free time at 23 °C	2~3 hours
Curing time at 23 °C	$\pm 7$ days
Recoat time at 23 °C	6~8 hours
Walkable (pedestrian)	$\pm 24$ hours
Application temperature range	10 °C~30 °C
Service temperature range	-40 °C~90 °C
Maximum relative environmental humidity	?80%
Water absorption	0,5%
Dilution (it's not necessary; could be used)	? 10% DESMOSOLVENT



These values in this table are approximate and can vary depending on the situation of the carrier or application methodology employed.



The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. The customer assumes full responsibility for quality control, testing, and determination of the suitability of products for its intended application or use.

We warrant that our products will meet our written liquid component specifications. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability or fitness for a particular purpose since Tecnopol Sistemas S.L.U. does not control the execution, since Tecnopol Sistemas S.L.U. does not control the execution. Our total liability and customers' exclusive remedy for all proven claims is the replacement of the nonconforming product and in no event shall we be liable for any other damages. While descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/ use, Tecnopol Sistemas S.L.U. recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use.

No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of Tecnopol Sistemas S.L.U. terms and conditions of sale. Further, the descriptions, designs, data, and information furnished by Tecnopol Sistemas S.L.U. hereunder are given gratis and Tecnopol Sistemas S.L.U. assumes no obligation or liability for the description, designs, data or information is given or results obtained, all such being given and accepted at the reader's risk.

All data furnished refers to standard production using manufacturing testing tolerances. The product user, and not Tecnopol Sistemas S.L.U., is responsible for determining the suitability and compatibility of our products for the final user's intended use.

The liability of Tecnopol Sistemas S.L.U. and its affiliates for all claims is limited to the purchase price of the material.

Products may be toxic and require special precautions in handling. Users should obtain detailed information on toxicity, together with proper shipping, handling and storage procedures, and comply with all applicable safety and environmental standards.

No freedom from any patents or other industrial or intellectual property rights is granted or to be inferred.

