



TECNOTOP S-3000 - TWO COMPONENT, HI-TECH
COLORED, COLD POLYUREA BASED RESIN FOR
HIGH QUALITY COATINGS

TECNOTOP S-3000 is a two component, fluid, aliphatic and pigmented coating; with high mechanical resistance, flexibility; cold application by a roll. Suitable for pavement and floor finishing (suitable for low external temperatures).



USES

Flooring resin to use in the next situations:

- Pavements of heavy and intense traffic as for garages, car parks, malls.
- Pavements of high decontamination and cleaning requirements as in chemical and food industries
- For UV rays protection of TECNOCOAT and DESMOPOL waterproofing membranes, in roofs, balconies or traffic deck.

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

density at 23°C	±1,50 g/cm ³
tensile strength at 23 °C	>11 MPa
elongation at break at 23 °C	>60%
shore A at 7 days at 23 °C	±97
solid content	100%
recoat time at 23 °C	±1,5~2 hours
passable (pedestrian) at 23°C	±2 hours
passable (pedestrian) at -20°C	±8 hours
passable (light traffic) at 23°C	±8~12 hours



COLORS

	Neutral
	Grey RAL 7042
	RAL



GENERAL FEATURES

- Aliphatic, fast dry coating (± 2 hours to allow the pedestrian walk)
- Cold application by roll
- Application at low ambient temperatures (dry time 8 hours at -20°C)
- 100% solids content
- Excellent resistance to heavy traffic, outside (aliphatic behavior) and inside areas
- It can be applied on several supports: concrete, ceramic tiles, cement or DESMOPOL, and TECNOCOAT waterproofing aromatic membranes
- TECNOTOP S-3000 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
- Finishing versatility, multi-layer or may be applied as a paint
- Easy of maintenance, cleaning, and decontamination
- The final product is obtained by mixing 100% of the two components. If only part of the product is used, make sure that this ratio is always maintained to ensure that the final result retains the product's best qualities.
- Mix both components together well using a rod stirrer for around 2 minutes, or until the two components are completely mixed.
- Can be used outdoors and indoors situations (aliphatic behavior)
- It is recommended that the same batch number is used in each area of application to ensure an even color is obtained
- Do not add water in any case
- You can add DESMOSOLVENT (max. 5%) for an easier application
- No solvent, odorless

PACKAGING

Metal tins, on these two different formats:

- LARGE: 16 kg + 4 kg
- SMALL: 4 kg + 1 kg

SHELF LIFE

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

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

TECNOTOP S-3000 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.

TECNOCOAT/DESMOPOL waterproofing membranes

- clean up the surface or substrate, removing any dust, dirt, grease
- application of PRIMER PU-1000/PRIMER EPw-1070, consumption $\pm 50\text{--}70$ g/m² (if the application of membranes was more than 24~48 hours)
- application by short hair roll, thin coats of TECNOTOP S-3000, recommended two layers.(consumption $\pm 200\text{g/m}^2/\text{coat}$)

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 EP-1020 100% solids epoxy resin, with a yield of approximately ± 300 g/m² (two thin layers) always depending on the state of the substrate or the surface's porosity.
- application by short hair roll, thin coats of TECNOTOP S-3000, recommended two layers.(consumption $\pm 250\text{g/m}^2/\text{coat}$)

Ceramic substrate

- light polish of surface: to open the pore, clean up of dust and dirt particles.
- ceramic surfaces should not have empty joints or loose elements or parts. These should be filled with MASTIC PU mastic, complemented with TECNOBAND 100 on the joints if necessary, or with our resin mortar made by a mix of our 100% solid content epoxy resin PRIMER EP-1020 and SILICA SAND (ratio of $\pm 1:4$).
- clean up the surface
- next, apply the required primer; in these cases of non-porous surfaces use the water-based epoxy PRIMER EPw-1070, yield 250 g/m².
- application by short hair roll, thin coats of TECNOTOP S-3000, recommended two layers.(consumption $\pm 200\text{g/m}^2/\text{coat}$)

For another kind of support contact our technical department. Please, check all the TDS of our products and systems

Notes:

- Consult in all cases the waiting times, drying time, singular points treatment, conditions of application of all the products through the technical data sheets of each product, the technical handbook of application of TECNOCOAT , or consult our technical department.
- For other types of supports/substrates, for further information on the execution application procedure, for any additional questions, please, consult the technical data sheets (TDS) of these products, or our technical department.
- These guidelines are valid although they can be modified, according to the situation of the supports, conditioning of the bearing structures of the elements to be waterproofed, external climatology or situation at the time of application

APPLICATION METHODS

This is the methodology for the application of TECNOTOP S-3000:



as a paint

- apply TECNOTOP S-3000 by a short-haired roller in at least two successive layers as drying times. Consumption in this type of application is $\pm 200-250$ g/m²/layer, depending on the roughness of the substrate.

multilayer system(SILICA SAND)

- apply the first coat of TECNOTOP S-3000 by short hair roll
- spread SILICA SAND on the wet surface of TECNOTOP S-3000.
- once dried, remove the non bonded SILICA SAND
- apply a second coat of TECNOTOP S-3000 with rubber
- the last coat, applied by roll

COMPLEMENTARY PRODUCTS

The TECNOTOP S-3000 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 $\pm 1:4$, 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.
- TECNOBAND 100: the cold bond deformable band made up of an upper layer of non-woven textile and a lower layer of viscoelastic self-adhesive coating, which together allow it to adapt to the shape of the substrate. This band is ideal when dealing with structural joints and overlapping metal materials.
- MASTIC PU: polyurethane mastic for filling joints (use together with TECNOBAND 100 when necessary).

HANDLING

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 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 material and safety data sheet of the product (MSDS) or contact our technical department.



TECHNICAL DATA

PROPERTIES	RESULT
Density at 23°C ISO 1675	±1,50 g/cm ³
Viscosity at 23°C ISO 2555	570 cps
Density component A at 23°C ISO 1675	±1,57 g/cm ³
Density at 23°C component B ISO 1675	±1,10 g/cm ³
Viscosity at 23°C component A ISO 2555	600 cps
Viscosity at 23°C component B ISO 2555	450 cps
Solids content ISO 1768	100%
VOC(volatile organic compounds)	0
Viscosity at 23 °C ISO 2555	250 cps
Mixing ratio	1:4
Tensile strength at 23 °C ISO 527-3	>11 MPa
Elongation at break at 23 °C ISO 527-3	> 60%
Hardness Shore A at 7 days DIN 53.505	>97
Hardness Shore D at 7 days DIN 53.505	>60
Pot life at 23 °C	±30 minutes
Tack free time at 23 °C	±40 minutes
Recoat time at 23 °C	±1,5~2,5 hours
Environment and support range temperature (application)	-0 °C~30 °C
Environment range use temperature (service)	-20°C~65°C
Passable (pedestrian) at 23°C	±2 hours
Passable (pedestrian) at -20°C	±8~12 hours
Passable (light vehicles) at 23°C	±8~12 hours
Fire reaction EN-13501-1:2007+A1:2010	Bfl- s1
Concrete adherence	>2 MPa

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.

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