TECNOTOP S-3000 - ALIPHATIC COLD ROLLABLE COLD POLYUREA-BASED RESIN FOR HIGH QUALITY COATINGS

Two component, aliphatic, colored and glossy finish, rollable cold polyurea-based resin. Once dried, it forms a hard, strong seamless and continuous film, with excellent adhesion and mechanical properties, resistant to weathering, extreme(low) temperatures, resistant to the UV radiation(outdoor and indoor applications)and suitable for coating protection for traffic-car.

CE

USES

Flooring resin to use in the next situations:

- Heavy and intense traffic pavements such as garages, parking lots, shopping centers.
- Floors with high decontamination and cleaning requirements such 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	1.50 ±0.05 g/cm³
Tensile strength	>11MPa
Elongation at break	>60%
Pot-life	±30 minutes
Dry time	±90 minutes
Application method	By brush, by a short nap acrylic wool roller or“airless” equipment, or squeegee

COLORS

	Neutral
	Gray RAL 7042
	RAL Chart*

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

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GENERAL SPECIFICATIONS

- Two component, aliphatic, colored, cold application by roll or squeege, no solvent-content, odorless, fast dry coating (±2 hours to allow the pedestrian walk) based on polyaspartic technology.(rolable polyurea)
- High covering behavior, great adherence to substrates, manual cold application, forms a continuous, colored coating, with excellent resistance to road traffic on both exterior and interior pavements and easy to clean and maintain.
- It is delivered in any non-metallic RAL color *(check the delivery conditions of minimum quantities in the price list)*
- Application at low ambiance temperatures *(fast dry time 8 hours at -20ºC)*
- It must be applied in sound and resistant substrates, with no presence of humidity/water on the surface whether at the time of application or subsequently (pressure from phreatic water level, damp-water). In the event there is humidity in the substrate at the moment of application, use some of our primers.
- Suitable for ponding water, on a variety of surfaces: concrete, mortar, steel/metal, cement, plywood, ceramics, Tecnocoat and Desmopol membranes *(for UV rays protection)*
- 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.
- Do not add water in any case. Desmosolvent (max. 5%) can be added for ease of use
- Use the same batch of product in each area of application to avoid the minimum and possible color change
- It holds a CE marking on the basis of a statement made DoP Declaration of Performance (DoP) under the UNE-EN 13813:2014

PACKAGING

Metallic pail kit, in two different formats:

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

APPLICATION METHOD

TECNOCOAT/DESMOPOL, waterproofing membranes substrates: Clean up the surface or substrate, removing any dust, dirt, grease, or efflorescence. PRIMING: use Primer PU-1030/Primer PU-1000/PrimerEPw-1070, with a yield of approximately 50~70 g/sqm, if the time of application of membrane(TECNOCOAT or DESMOPOL) is over 24~48 h, and depending on the state of the substrate or the surface's porosity too. Apply by a short nap acrylic wool roller, squeege or "airless" equipment (consumption: 250-500 g/sqm). Open pails of both components and homogenize each one by mixing equipment at medium speed. In the case of neutral version, add the supplied amount of Pigments PU (20%) to component A, and mix until a homogeneous color is achieved using an electric mixer at medium speed; then add and mix component B. In the case of it is delivered already pigmented, pour component B into the container of component A. Mix using electric mixing equipment at medium speed, until a homogeneous product is obtained. Consumption: 250-500 g/sqm. In case of doubt, apply in a limited area to check

Cement or concrete substrates: 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 (width < 15 mm): remove old material, clean and fill with Mastic PU. In joints (width >15 mm): 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 by a short nap acrylic wool roller, squeege or "airless". Open pails of both components and homogenize each one by mixing equipment at medium speed. In the case of neutral version, add the supplied amount of Pigments PU (20%) to component A, and mix until a homogeneous color is achieved using an electric mixer at medium speed; then add and mix component B. In the case of it is delivered already pigmented, pour component B into the container of component A. Mix using electric mixing equipment at medium speed, until a homogeneous product is obtained. Consumption: 250-500 g/sqm. In case of doubt, apply in a limited area to check.

Ceramic substrates: Ceramic surfaces should not have empty joints or loose elements or parts. These should be filled with Mastic P-2049 mastic or mortar, according to their size. Existing joints or seals: remove the old material, clean up and fill with Mastic P-2049. Sanding with specific equipment. Thereby, to remove moss or solids particles bonded to the substrate, and opening the pore. Clean up, using a vacuum method. PRIMING: use Primer EP-1040, Primer EP-1010 or Primer EPw-1070, depending on the existing moisture in the substrate. Apply by a short nap acrylic wool roller, squeege or "airless" equipment(consumption: 250-500 g/sqm). Open pails of both components and homogenize each one by mixing equipment at medium speed. In the case of neutral version, add the supplied amount of Pigments PU (20%) to component A, and mix until a homogeneous color is achieved using an electric mixer at medium speed; then add and mix component B. In the case of it is delivered already pigmented, pour component B into the container of component A. Mix using electric mixing equipment at medium speed, until a homogeneous product is obtained. Consumption: 250-500 g/sqm. In case of doubt, apply in a limited area to check.

NOTE: For other types of substrates, weather conditions or final use, consult our technical department.

APPLICATION FINISHINGS

Paint : Apply a first layer of the resin by brush, short-haired roller. Consumption approx.: 200-250 g/sqm. After dry time, apply a second coat. For the application, a brush or short-haired roller can be used.

Multilayer method with SILICA SAND: Application of a first one by means of a short-nap acrylic wool roller or "airless" type equipment and carried out in thin coats(approximate consumption of 70-100 g/sqm/coat). Spreading on the wet substrate Silica Sand in the consumption desired by the customer. Hence an anti-slip surface is achieved to enable the system to have a degree of slip resistance. After dry time, remove the aggregate not adhered to the surface; refill with aggregates areas not defined correctly, if necessary. Vacuum up non-adhering aggregates. Application of a second coat by short nap acrylic wool roller or "airless" equipment and carried out in thin coats (approximate consumption of 150 g/sqm/coat).

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	RESULT
Density ISO 1675	±1.50 ±0.05 g/cm³
Viscosity ISO 2555	±570 cps
Density compounds A/B ISO 1675	±1.50 g/cm³ / ±1.20 g/cm³
Viscosity compounds A/B ISO 2555	±630 cps / ±750 cps
Mixing ratio (in weight)	4:1
Solids content ISO 1768	100%
VOC content	0
Antiskid UNE-EN 16165 (700g/sqm Silica Sand)	Rd=49 Class 3 (outside areas and pools)
Tensile strength ISO 527-3	>11 MPa
Elongation at break ISO 527-3	>60%
Hardness Shore A/D at 7 days DIN 53.505	>97 / >60
Adherence resistance UNE-EN 13892-8	3.6 MPa
Impact resistance UNE-EN ISO 6272-1	>14.7 Nm / At 1500 mm no damages. Crater diameter: 7.8 mm
Wear resistance UNE-EN 13892-4	30 µm
Reaction to fire EN-13501-1:2007+A1:2010	Bfl- s1
Pot-life / dry time /cured time/ recoat time	±30 minutes / ±90 minutes / 5 days / 1.5~48 hours
Walkable (pedestrian/ vehicular)	±2 hours / 8~12 hours
Walkable (pedestrian) at -20ºC	±8 hours
Application temperature range (substrate and environment)	-0~35 ºC (32 to 90ºF)
Use temperature range (environment)	-20~65ºC *(-4 to 149ºF)*
Maximum ambient humidity	±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.

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