



TECNOTOP 2C - TWO COMPONENT, ALIPHATIC POLYURETHANE RESIN SUITABLE AS A FLOORING AND UV RAYS PROTECTION

Two component colored, aliphatic, glossy finish, polyurethane solvent-based resin for decoration, flooring and protection of Tecnocoat and Desmopol waterproofing liquid systems. Once dried, it forms a hard, strong seamless and continuous film, with excellent adhesion and mechanical properties, resistant to weathering, extreme temperatures, resistant to the UV radiation. It is suitable for coating protection for traffic-car



USES

For application in the following situations:

- Aliphatic protection of Tecnocoat and Desmopol waterproofing liquid membranes against UV solar rays, on flat and sloped roofs (*vehicle traffic*)
- Coating for industrial and commercial flooring
- Coating for flooring resin systems (Tecnofloor range)

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

Density	±1.20 g/cm ³
Viscosity	2,000 - 2,300 cps
Pot-life	±1 hour
Dry time	±2 hours
Application method	By brush, by a short nap acrylic wool roller or "airless" equipment, always thin coats application



COLORS

	Neutral and neutral matt
	Gray RAL 7042
	Red tile RAL 8004
	Chart RAL*

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



GENERAL SPECIFICATIONS

- Two component colored, aliphatic, glossy finish, polyurethane solvent-based resin for decoration, flooring and protection of Tecnocoat y Desmopol waterproofing liquid systems. Once dried, it forms a hard, strong seamless and continuous film, with excellent adhesion and mechanical properties, resistant to weathering, extreme temperatures, resistant to the UV radiation. It is suitable for coating protection for vehicular traffic.
- It has an **SRI Index** according to ASTM E1980-11 (*Tecnotop 2C White color*)
- It holds a CE marking on the basis of a statement made DoP Declaration of Performance (DoP) under the UNE-EN 13813:2014
- It is delivered in any non-metallic RAL color (*check the delivery conditions of minimum quantities in the price list*)
- In the case of the translucent version, the coloring is carried out by adding the two components, previously mixed, of Pigments PU (*20% by weight*)
- Suitable for ponding water, on a variety of surfaces: concrete, mortar, steel/metal, cement, plywood, ceramics, Tecnocoat and Desmopol membranes (*for UV rays protection*)
- 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.
- 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.
- Use the same batch of product in each area of application to avoid the minimum and possible color change
- Do not apply for swimming pool coatings (*for this specific use, see Tecnotop 2CP TDS*)

YIELD

The yield can vary depending on the coats needed to be made according to the use or the type of substrate. Consumption is approximately 150 g/sqm/layer, with total consumption up to 300 g/sqm depending on end use or type of application.

PACKAGING

Metallic pail kit, in two different formats:

- LARGE KIT: 17.2 kg + 2.8 kg
- SMALL KIT: 4.3 kg + 0.7 kg (*only in neutral and grey color*)

STORAGE AND SHELF LIFE

12-months shelf life is stored in original containers in a dry environment at a temperature between 5-35 °C (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/Primer EPw-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. 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. In case of doubt, apply in a limited area to check

Concret or mortar 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. 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. 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. 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. In case of doubt, apply in a limited area to check

Painted surfaces: If the existing paint is in good condition, clean its surface with a mixture of water and an industrial detergent, wait to dry. If the situation of the existing paint is not optimal sanding of the surface will be carried out, to avoid the contribution of water to the substrate. This action will open the pore, clean of adhered efflorescence or dirt, and regularization of the surface by extracting the raised or unattached areas, without adding water. Cleaning of the substrate, removing existing dust, dirt, grease or efflorescence by mechanical suction. PRIMING: use Primer EPw-1070. 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. 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

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).

Addition of TECNOPLASTIC F/C: Apply a first coat (*if there is a high requirements*) by means of a short-nap acrylic wool roller or "airless" type equipment (approximate consumption of 70-100 g/sqm/coat). Mix Tecnoplastic F/C, mixing ratio: maximum 8-9% (recommended 7%) in the resin pail. Add comp B. to the comp A, stirr/mix with electric mixer at medium speed until homogenize. Spread in one coat, using a short nap acrylic wool roller and made in thin coat (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		VALUES
Density	ISO 1675	$\pm 1.20 \text{ g/cm}^3$
Viscosity	ISO 2555	2,000 - 2,300 cps
Density compounds A/B	ISO 1675	$\pm 1.25 \text{ g/cm}^3 / \pm 1.08 \text{ g/cm}^3$
Viscosity compounds A/B	ISO 2555	4,000 $\pm$ 1,000 cps / 275 $\pm$ 50 cps
Mixing ratio (in weight)		6.14:1
Solid contents	ISO 1768	$\pm 71\%$
VOC content		326g/l
Elongation at break (test made on polyurea membrane)	ISO 527-3	$\pm 95\%$
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: 5.9 mm
Wear resistance	UNE-EN 13892-4	30 μm
Reaction to fire	ISO-11925-2	Efl
Pot life / Dry time / Cured time / Recoat time		± 1 hour / ± 2 hours / ± 7 days / ± 12 hours / ± 24 hours
Walkable (pedestrian/ vehicular)		± 12 hours / ± 24 hours
Application temperature range (substrate / environment)		5~35 °C (41 to 95°F)
Use temperature range (environment)		-20~80 °C (-4 to 176°F)
Maximum environment humidity		$\pm 80\%$
Dilution (machine application)		Desmosolvent (max. 5-7%)
Solar reflectance index (SRI)	ASTM E1980-11	105.5 (RAL 9003)
Slip Resistance	UNE-EN 16165 (700g/sqm Silica Sand)	Rd=53 Class 3 (outside areas and pools)
Slip Resistance	UNE-EN 16165 (Tecnoplastic F, 10% in weight)	Rd=68 Class 3 (outside areas and pools)
Slip Resistance	UNE-EN 16165 Annex B/DIN 51130 (700g/sqm Silica Sand)	R12 (31° ramp test value)

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

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