



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:

- 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
Approx. total consumption	150~300 g/sqm(depending on final scope)
Initial dry time	±2 hours
Recoat time	2~48 hours
Dilution	Desmosolvent (max. 5-7%), in case of mechanical application
Application method	By brush, by a short nap acrylic wool roller or "airless" equipment, always thin coats application



COLORS

	Neutral
	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 traffic-car
- It has an **SRI Index** according to ASTM E1980-11 (*Tecnotop 2C White color*)
- 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 use, use Tecnotop 2CP*)

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*)

SHELF LIFE

12 months at temperatures between 5° C and 35° C (*41 °F to 95 °F*), provided it is stored in a dry place. Once the tin has been opened, the product must be used.

MIXING PROCEDURE

These are the steps for the correct mixing of both components:

- Open pails of both components and homogenize each one by mixing equipment at medium speed
- In the case of Tecnotop 2C neutral, 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 Tecnotop 2C 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

APPLICATION METHOD



The following factors prior to application should be checked:

- Previous preparation of the substrate according to its type
- Existing holes or areas with a lack of material must be repaired using some of our epoxy resins: Primer EP-1020/Primer EP-1010
- Joint fillings with Mastic PU
- In existing dilatations joints: remove old material, clean, and fill with Mastic PU. Use also Tecnoband 100 to cover, if necessary.
- General cleaning of the substrate, removing existing dust, dirt, grease, or efflorescence

TECNOCOAT/DESMOPOL, waterproofing membranes substrates

- Clean up the surface or substrate, removing any dust, dirt, grease, or efflorescence
- Apply 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 thin coats by a short nap acrylic wool roller or "airless" equipment

Cement or concrete substrates

- The concrete must be completely cured (the curing process is 28 days), or in any case, it is necessary to check the maximum degree of moisture permittivity of the substrate depending on the primer to be used
- Processes to prepare the substrate (sanding, polishing, shot-blasting or milling) to remove surface laitance, and release agents, as well as to open the surface pore and achieve a suitable anchoring profile.
- Existing holes or areas with a lack of material must be repaired using some of our epoxy resins: Primer EP-1020/Primer EP-1010.
- Joint filling with Mastic PU
- In existing work joints: empty of old material, clean and fill with Mastic PU. Complement the joints with Tecnoband 100 if necessary.
- Cleaning of the substrate, removing existing dust, dirt, grease or efflorescence by mechanical suction
- Primer application, recommended Primer PU-1050/Primer PUC-1050 , total consumption approx. 250 g/sqm (applied in several thin coats) or Primer WET depending on the existing humidity in the substrate and with a total consumption of 450 g/sqm (apply in one single coat) . Primer consumption may vary depending on the physical characteristics of the substrate or its absorption coefficient.
- Apply thin coats by a short nap acrylic wool roller or "airless" equipment

Ceramic substrates

- Light-sanding of the surface. 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.
- Ceramic substrate there should be no empty joints, elements, or loose pieces. They must be filled with Mastic PU, or with some of our epoxy resins: Primer EP-1020/Primer EP-1010; also use cementitious materials.
- Joint filling with Mastic PU
- In existing work joints: empty of old material, clean and fill with Mastic PU. Complement the joints with Tecnoband 100 if necessary.
- Cleaning of the substrate, removing existing dust, dirt, grease or efflorescence by mechanical suction
- Primer application, recommended Primer EP-1040, total consumption approx. 100-150 g/sqm (applied in several thin coats), or Primer EPw-1070 (applied in several thin coats), total consumption approx. 150-200 g/sqm. Primer consumption may vary depending on the physical characteristics of the substrate or its absorption coefficient.
- Apply thin coats by a short nap acrylic wool roller or "airless" equipment

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
- Primer application, recommended Primer EPw-1070, total consumption approx. 150-200 g/sqm (applied in several thin coats). Primer consumption always subject to the physical characteristics of the substrate and its absorption coefficient.
- Apply thin coats by a short nap acrylic wool roller or "airless" equipment

APPLICATION FINISHINGS

If desired, an anti-slip finish can be created with the following methods:

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.
- Wait for it to dry and 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 of Tecnotop 2C (*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 Tecnoelastic F/C, mixing ratio: maximum 8-9% (recommended 7%) in the resin pail.
- Add Tecnotop 2C comp B. to the comp A, stir/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)

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

HEALTH AND SAFETY

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 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.

COMPLEMENTARY PRODUCTS



The following products can be applied as complements to their use. In this way, its physical-mechanical characteristics are protected and improved depending on its exposure, desired finish, or type of substrate:

- PRIMER EP-1010: epoxy resin with charges for filling existing holes in concrete or ceramic surfaces, to be applied in a single coat
- PRIMER EP-1020: epoxy resin to apply on concrete or ceramic substrates, improving adherence, absorbing substrate moisture, and regularizing the planimetry of the substrate.
- PRIMER PU-1050/PUC-1050: solvent-free polyurethane resin to apply on concrete, improving adherence, absorbing substrate moisture, and regularizing the planimetry of the substrate.
- PRIMER EP-1040: epoxy resin to apply on metal or ceramic substrates, improving adherence, absorbing substrate moisture, and regularizing the planimetry of the substrate
- PRIMER EPw-1070: water-based epoxy resin to apply on concrete, asphalt, metal, or ceramic substrates, absorbing substrate moisture and regularizing the planimetry of the substrate.
- PRIMER WET: epoxy resin to apply on very wet concrete or ceramic substrates, improving adherence, absorbing substrate moisture, and regularizing the planimetry of the substrate.
- TECNOPLASTIC F/C: plastic particles (two different weights) that, once mixed, form a rough surface, even complying with the CTE DB SUA1 (Slipperiness of floors), until achieving a CLASS 3 classification (Rd>45) UNE-ENV 12633:2003, according to its dosage (ask our technical department).
- TECNOBAND 100: 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).

TECHNICAL FEATURES

PROPERTIES	VALUES
Density ISO 1675	±1,20 g/cm ³
Viscosity ISO 2555	2.000 - 2.300 cps
Density components A/B ISO 1675	±1,25 g/cm ³ / ±1,08 g/cm ³
Viscosity components A/B ISO 2555	4.000 ±1.000 cps / 275 ±50 cps
Solid contents ISO 1768	±71%
Mixing ratio (in weight)	6,14:1
VOC content (volatile organic compounds)	340/230 g/l
Elongation at break (test made on polyurea membrane) ISO 527-3	±95%
Adherence to concrete	>1,5MPa
Pot-life	±1 hour
Initial dry time	±2 hours
Cured time	±7 days
Recoat time	2~48 hours
Walkable (pedestrian/ vehicular)	±12 hours / ±24 hours
Application temperature range (substrate / environment)	5 °C~ 35 °C / -20 °C~80 °C (41°F to 95°F / 50°F to 176°F)
Use temperature range (environment)	-20 °C~80 °C (-4°F to 176°F)
Maximum environment humidity	±80 %



Dilution (machine application)

Desmosolvent (max. 5-7%)

Results 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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