TECNOTOP 1C - SINGLE COMPONENT, COLORED, ALIPHATIC AND SOLVENT BASED POLYURETHANE RESIN

TECNOTOP 1C is a single component aliphatic solvent based polyurethane resin for treatment, decoration and protection of flooring, has a shiny finishing and forms a flexible, continuous film, with excellent adhesion and mechanical properties as its excellent resistance to abrasion and stress that make it resistant to weathering, extreme temperatures and UV radiation.

USES

- · As a coating for a continuous surface
- As a coating for a car park with a very light traffic(private car parks)
- Protection against UV rays on TECNOCOAT pure polyurea membrane or DESMOPOL polyurethane membrane on flat or sloped roofs, terraces and balconies.

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

consumption	150~175 g/m²/coat
tack free time at 23°C	±1 hour
recaot time at 23°C	4~48 hours
dilution	DESMOSOLVENT (max 5%)
application method	by brush, roller or "airless" equipment

COLORS

Grey (RAL7042)
Red tile (RAL 8004

GENERAL FEATURES

- It is a glossy, aliphatic, colored and translucent solvent based polyurethane resin
- It forms a continuous coating, easy to clean and maintain and resistant to algae and mold growth.
- TECNOTOP 1C 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 their maximum humidity ranges are specified.
- TECNOTOP 1C can be applied on a variety of surfaces: concrete, cement, ceramics, TECNOCOAT or DESMOPOL membranes (for UV rays protection)
- Apply on dry, firm substrates, with a surface temperature of between 3 °C above dew point, an ambient



temperature of at least 10 °C.

- TECNOTOP 1C must be applied in thin layers, with roller, brush or airless spray equipment (nozzle: 0.007" to 0.011"; nozzle tip pressure, 180 to 200 kg/m²).
- It can be thinned using DESMOSOLVENT, up to 5% for applications with airless spray equipment.
- Do not apply on swimming pools or, in general, on surfaces that undergo total immersion.

YIELD

The yield of TECNOTOP 1C varies depending on the layers applied, the type of substrate or the final use. It is applied in thin layers, consumption is approximately 150~175 g/m²/layer.

PACKAGING

Metal tins of 5 kg

SHELF LIFE

Expires after 12 months, at temperatures between 5° C and 25°, provided it is stored in a dry place. Once the tin has been opened, it 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 1C 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 application 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 or efflorescence
- apply PRIMER PU-1000/PRIMER EPw-1070, with a yield of approximately 50~70 g/m², 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 roll, thin layers of colored TECNOTOP 1C

Cement or concrete surfaces

- any depressions or voids should be repaired using a mix (ratio of ±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 laitance 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/PU-1000, with a yield approximately 250 g/m² (two layers) always depending on the state of the substrate or the surface's porosity.



• apply by roll, thin layers of colored TECNOTOP 1C

Painted surfaces

- if the existing paint is in good conditions, clean the surface with a mixture of water and industrial detergent. Leave to dry.
- remove the existing paint if it does not offer good bonding conditions and eliminate any substrate in poor condition as this could hamper TECNOTOP 1C bonding.
- · clean up and leave to dry
- apply PRIMER EPw-1070, with a yield of approximately 250 g/m² (two layers) always depending on the state of the substrate or the surface's porosity. Apply the necessary layers to coat fully.
- apply by roll, thin layers of colored TECNOTOP 1C

APPLICATION TYPES

If so required, TECNOTOP 1C can be applied with a non-slip finish as follows:

TECNOPLASTIC F system

- apply an initial coat of TECNOTOP 1C blended with TECNOPLASTIC F (maximum 6-8%, recommended ±5 %)
- · apply a second coat if it's necessary to cover

Notes:

- Consult in all cases the waiting times, drying time, singular points traitment, 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

COMPLEMENTARY PRODUCTS

TECNOTOP 1C 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 ±1:4, or calcium carbonate in ratio ±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.
- TECNOPLASTIC F/C: this plastic powder, once mixed with TECNOTOP 1C forms a rough surface, conforming even to norm ENV 12633:2003 (floors slipperiness), to achieve Class 3 (>45 slip resistance), depending on dosage (consult our technical department).
- TECNOBAND 100: cold bond deformable band made up of an upper layer of non-woven textile and 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 AND TRANSPORT



TDS. TECHNICAL DATA SHEET

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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 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 FEATURES

PROPERTIES	VALUES
Density at 23 °C ISO 1675	±1,20±2 g/cm ³
Solid contents ISO 1768	±63%
Adherence to concrete at 23 °C	>2 MPa (N/mm²)
Tack free time at 23 ℃	±1 hour
Complete cured time at 23°c	7 days
Support temperature range	8 °C~30 °C
Environmental temperature range	8 °C~ 35 °C
Repaint time at 23 °C	4~48 hours
Walkable(pedestrian) at 23 °C	±12-24 hours
Aplication range temperature	-30 °C~80 °C
Application method	by roll or airless equipment
Dilution (machine application)	DESMOSOLVENT (max. 5%)

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

