TECNOTOP 2CP is a two-component aliphatic polyurethane resin for treatment, decoration, and protection of surfaces and areas in contact with chlorinated waters, even underwater for that is particularly suitable for the lining of pools, lakes or aquatic areas.

USES
- Swimming pools, aquariums, ponds with chlorinated water, on porous or nonporous surfaces.
- Pedestrian floor areas, in contact with chlorinated water
- Protection of TECNOCOAT pure polyurea membrane or DESMOPOL polyurethane membrane.
- Flat or sloped roofs, terraces, and balconies.

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

<table>
<thead>
<tr>
<th>Approx. Total Consumption</th>
<th>150~250 g/m² (depending on final scope)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tack Free Time at 23°C</td>
<td>3 ~ 4 hours</td>
</tr>
<tr>
<td>Recoat Time at 23°C</td>
<td>4~48 hours</td>
</tr>
<tr>
<td>Dilution</td>
<td>DESMOSOLVENT (max. 5-7%) in case of electrical application</td>
</tr>
<tr>
<td>Application Method</td>
<td>by brush, roller or “airless” equipment, always thin coats application</td>
</tr>
</tbody>
</table>

COLORS
- Neutral
- White RAL 9003
- Blue RAL 5012
- RAL
GENERAL FEATURES

- It is a glossy and translucent polyurethane resin; completely aliphatic
- It is colored using PIGMENTS (20% on weight)
- It forms a continuous coating, easy to clean and maintain and resistant to algae and mold growth.
- It offers excellent resistance to cleaning products in chlorinated areas.
- TECNOTOP 2CP 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.
- In the event of an application in pools, ponds or aquariums, fill the glass until after 7 days after the application of the final layer of TECNOTOP 2CP.
- The end product is performed by mixing the two components to 100%. In case of part of product applications, respecting at all times the mixing ratio for the final product to get the best possible product.
- 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.
- TECNOTOP 2CP can be applied on a variety of surfaces: concrete, cement, ceramics, TECNOCOAT or DESMOPOL membranes.
- Apply on dry, firm substrates, with a surface temperature of between 3 ºC above the dew point, an ambient temperature of at least 10 ºC and relative humidity below 80%.
- Mix both components together well using a rod stirrer for around 2 minutes, or until the two components are completely mixed. Then, apply in thin layers.
- TECNOTOP 2CP can be applied with a 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.
- Adding the product pool cleaning must be done by automated equipment controlled mixing, never added directly to the surface thereof applied TECNOTOP 2CP.
- Available in salt clean system pool

COLORS

The product comes in transparent neutral. It can be pigmented in any desired color on the RAL standard color chart. Consult the conditions for delivery of pigmented color based on the order. (quantity and kind of coloration).

YIELD

The yield of TECNOTOP 2CP varies depending on the layers applied and the type of substrate. It is applied in thin layers, consumption is approximately 150 g/m²/layer, with a total consumption of 300 g/m².

PACKAGING

Metal tins in two different formats:

- LARGE: 17.2 kg + 2.8 kg
- SMALL: 4.3 kg + 0.7 kg (only in neutral version)

SHELF LIFE
Component A expires after 24 months, and component B after 12, at temperatures between 5° C and 35°, 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.)
- detail works (perimeter, sinks/drainages, 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 Tecnotop 2CP neutral version, add the proper quantity of PIGMENTS (20%) inside the component A and mix until getting a homogenized product, using an electric mixer medium speed; after that, add component B
- in case of Tecnotop 2CP already pigmented, pour component B on component A and stir to getting a homogenized product
- in case of doubt of all above, apply before in a restricted area and to check

TECNOTOP 2CP 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 2CP (total consumption 250 g/m², depending on the scope)
- in the case of swimming pools and areas of contact total immersion of water, wait 5-6 days to fill.

**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/PRIMER PuC-1050/PRIMER PU-1000, with a yield approximately 250 g/m² (two or more thin coats) always depending on the state; or apply PRIMER WET, total consumption around 450 g/m². Consumptions depending on the state of the substrate or the surface's porosity or humidity.
- apply by roll, thin layers of colored TECNOTOP 2CP (total consumption 250 g/m² depending on the scope)
- in the case of swimming pools and areas of contact total immersion of water, wait 5-6 days to fill.

**Ceramic surfaces**

- continuous sanding of the surface, to avoid the addition of water to the substrate. This action will lead to the opening of the pore of the ceramic flooring, cleaning of adhering efflorescence or dirt, and regularisation of the surface, without the addition of water.
- on ceramic surfaces, there must be no empty joints, elements or loose pieces. They must be filled with MASTIC PU or with our mortar made with our epoxy resin PRIMER EP-1020 and silica aggregate (ratio ±1:4), or cementitious materials used to make joints.
in existing expansion joints: empty old material, clean and fill with MASTIC PU. Complement the joints with TECNOBAND 100 if necessary (in joints greater than 20 mm wide).

after that, the entire surface must be cleaned and removed from contaminants such as dust or particles from these previous processes by mechanical vacuuming.

apply PRIMER EP-1040 epoxy resin with a total consumption of 100-150 g/m² or PRIMER EPw-1070 epoxy water-based resin, with a total consumption around 150-200 g/m² (two or more thin coats) always depending on the state of the substrate or the surface's porosity.

apply by roll, thin coats of colored TECNOTOP 2CP (total consumption 250 g/m² depending on the scope)

in the case of swimming pools and areas of contact total immersion of water, wait 5-6 days to fill.

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 2CP bonding.

apply PRIMER EP-1040 epoxy resin with a total consumption of 100-150 g/m² or PRIMER EPw-1070 epoxy water-based resin, with a total consumption around 150-200 g/m² (two or more thin coats) always depending on the state of the substrate or the surface's porosity.

apply by roll, thin coats of colored TECNOTOP 2CP (total consumption 250 g/m² depending on the scope)

in the case of swimming pools and areas of contact total immersion of water, wait 5-6 days to fill.

APPLICATION TYPES

If so required, TECNOTOP 2CP can be applied with a non-slip finish as follows:

multilayer system, adding SILICA SAND

apply an initial coat of TECNOTOP 2CP, by a roll or mechanical equipment in the thin coat (consumption of 100-150 g/m²)

spread with SILICA SAND, over the still wet resin. Consumption up to the final client or user

wait for the drying

remove silica sand not adhered using a broom; repair the areas without bonded sand

TECNOPLASTIC F/C system

mix our TECNOPLASTIC F/C with the desired mixing ratio, maximum 8-9%, recommended ±7% in the Tecnotop 2CP component A package.

add the Tecnotop 2PC component B in the initial mixture, beat with electrical mixing equipment at medium speed

paving a layer of mixed TECNOTOP 2CP, by roller and made in thin layers (consumption approximately 150-175 g/m²).

if necessary, apply a second final coat of TECNOTOP 2CP without mixing with TECNOPLASTIC F/C. The system is also certified to comply with the ENV 12633:2003, according to its dosage (consult our technical department).

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 TYPES

If so required, TECNOTOP 2CP can be applied with a non-slip finish as follows:

**multilayer system with SILICA SAND**

- apply an initial coat of TECNOTOP 2CP
- spread with SILICA SAND, over the still wet resin
- finally, apply a finish coat of colored TECNOTOP 2CP
- in case of total immersion, apply a thin final layer or neutral TECNOTOP S-3000 T (approximate. yield 80~100 g/m²)

**TECNOPLASTIC F/C system**

- apply an initial coat of TECNOTOP 2CP blended with TECNOPLASTIC F/C (maximum 8%, recommended ±5 %)
- followed by an over a layer of TECNOTOP 2CP. Certificate system as even with the ENV 12633: 2003 (slipperiness of floor) to get a classification CLASS 3 (Rd> 45), according to dosage (consult our technical department).
- in case of total immersion, apply a thin final layer or neutral TECNOTOP S-3000 T (approximate. yield 80~100 g/m²)

COMPLEMENTARY PRODUCTS

TECNOTOP 2CP 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 2CP, 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: 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 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.

- 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**

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density at 23 ºC ISO 1675</td>
<td>1,19 ±2 g/cm³</td>
</tr>
<tr>
<td>Solids content ISO 1768</td>
<td>±70%</td>
</tr>
<tr>
<td>Mixing ratio</td>
<td>1:6,14</td>
</tr>
<tr>
<td>VOC(volatile organic compounds)</td>
<td>250/230 g/l</td>
</tr>
<tr>
<td>Pot life at 23 ºC</td>
<td>&gt; 1 hour</td>
</tr>
<tr>
<td>Adherence to concrete at 23 ºC</td>
<td>&gt;1,5 MPa (N/mm²)</td>
</tr>
<tr>
<td>Elongation at break ISO 527-3</td>
<td>±50%</td>
</tr>
<tr>
<td>Support temperature range</td>
<td>8 ºC~30 ºC</td>
</tr>
<tr>
<td>Environmental temperature range</td>
<td>8 ºC~35 ºC</td>
</tr>
<tr>
<td>Service temperature range</td>
<td>-5ºC ~ 35ºC</td>
</tr>
<tr>
<td>Repaint time at 23 ºC and 60% relative humidity</td>
<td>4~48 hours</td>
</tr>
<tr>
<td>Dry time (tack free) at 23 ºC and 60% relative humidity</td>
<td>±2 hours</td>
</tr>
<tr>
<td>Walkable(pedestrian) at 23 ºC</td>
<td>±24 hours</td>
</tr>
<tr>
<td>Dry time (to fill pools) at 23 ºC</td>
<td>7 days</td>
</tr>
<tr>
<td>Application method</td>
<td>by a roll or airless equipment</td>
</tr>
<tr>
<td>Clorid (max. content for cleaning)</td>
<td>0,2~0,5 mg chlorine/l water</td>
</tr>
<tr>
<td>Dilution (by equipment application)</td>
<td>DESMOSOLVENT (max. 5-7%)</td>
</tr>
</tbody>
</table>

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. Customer assumes full responsibility for quality control, testing and determination of suitability of products for its intended application or use.

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