

ARBOFLEX[®] TOP COAT 2C

LIQUID WATERPROOFING

TOP COAT 2C - TWO-COMPONENT, ALIPHATIC POLYURETHANE SOLVENT BASED RESIN SUITABLE AS A FLOORING AND PROTECTION AGAINST UV RAYS

ARBOFLEX[®] TOP COAT 2C is a two-component aliphatic polyurethane resin for treatment, decoration, and protection of flooring has a shiny finishing and forms a hard, strong, 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. It is suitable for coating protection for the traffic deck.

USES





Polyurethane resin to use in the next situations:

- As a continuous surface coating for industrial or commercial resistant flooring use.
- used in walkable /car park transit uses, after ARBOFLEX[®] PU membrane
- Protection against UV rays on TOP COAT 2C pure polyurea membrane or ARBOFLEX[®]PU polyurethane membrane on flat or sloped roofs, terraces, and balconies.

NOTE:

Call our technical department about the application to other supports or situations

COLOUR

	Neutral
	Grey RAL7043
	Red tile RAL 8004
	RAL

Density at 23°C	±1.20 g/cm ³
Approx. total consumption	150~300 g/m ² (depending on final scope)
Drying time at 23°C	±2 hours
Recoat time at 23°C	2~48 hours
Dilution	(max. 5-7%), in case of mechanical application
Application method	Brush or roller applied

PRODUCT FEATURES

- It is a glossy, aliphatic and translucent polyurethane resin
- It is colored using PIGMENTS (20% on weight)
- Is served on any RAL color, except metallic ones (check sell conditions on the price list)
- It has an SRI Index according to ASTM E1980-11 (TOP COAT 2C White color)
- It forms a continuous coating, easy to clean and maintain and resistant to algae and mold growth.
- suitable for ponding water, and works under ponding water (according to ETAG 005)
- TOP COAT 2C 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.
- Apply on dry, firm substrates, with a surface temperature of between 3 °C above the dew point, an ambient temperature of at least 10 °C.
- 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.
- TOP COAT 2C must be applied in thin layers, with a roller or a brush.

YIELD

The yield of TOP COAT 2C varies depending on the layers applied, the type of substrate or the final use. It is applied in thin layers, consumption is approximately 150~200 g/m²/layer.

PACKAGING

Metal tins in two different formats:

- SMALL: 4.3 kg + 0.7 kg (only in neutral and grey color)

SHELF LIFE

Component A expires after 24 months, component B expires after 12 months, 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:

Metal tins in two different formats:

- 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 TOP COAT 2C 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 2C 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

Cement or concrete surfaces

- Fill joints with ARBOFLEX® PU Sealant

APPLICATION TYPES

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

multilayer system, adding SILICA SAND

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

ARBOFLEX® PU SLIP RESIST

- Mix our ARBOFLEX® PU Slip Resist with the desired mixing ratio, maximum 8-9%, recommended $\pm 7\%$ in the Tecnotop 2C component A package.
- Add the ARBOFLEX® Top Coat 2C component B in the initial mixture, beat with electrical mixing equipment at medium speed paving a layer of mixed ARBOFLEX® Top Coat 2C, by roller and made in thin layers (consumption approximately 150-175 g/m²).
- If necessary, apply a second final coat of ARBOFLEX® Top Coat 2C without mixing with ARBOFLEX® PU Slip Resist. 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, 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.

HANDLING AND TRANSPORT

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: 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

PROPERTIES

Density at 23 °C ISO 1675	±1,20 g/cm ³
Viscosity at 23°C ISO 2555	2.000 - 2.300 cps
Density component A at 23°C ISO 1675	1,30 g/cm ³
Density component B at 23°C ISO 1675	1,10 g/cm ³
Viscosity comp. A at 23°C ISO 2555	3.000 - 3.500 cps
Viscosity comp. B at 23°C ISO 2555	500 - 600 cps
Solid contents ISO 1768	±71%
Mixing ratio	1:6,14
VOC(volatile organic compounds)	250/230 g/l
Pot life at 23 °C	> 1 hour
Adherence to concrete at 23 °C	> 2 MPa
Elongation at break ISO 527-3	±35%
Drying time at 23 °C	±2 hours
Complete cured time at 23°C	7 days
Repaint time at 23 °C	2~48 hours
Support temperature range	8 °C~30 °C
Environmental temperature range	8 °C~ 35 °C
Walkable(pedestrian) at 23 °C	±24 hours
Use/service range temperature	-20 °C~80 °C
Application method	by roll or airless equipment
Dilution (machine application)	(max. 5-7%)

The values in this table are approximate and can vary depending on the situation of the support or application methods employed.

Both the information and the product descriptions contained in this publication have been compiled to the best of our knowledge and belief based on our prior experiences and tests. Claims for compensation may not be derived from the same. We reserve the right to make improvements to our product range, in accordance with our high standards in relation to technical advancement and the progression of quality.



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