

FUTUR PROTECT TC FLOOR 2K

TWO-COMPONENT ALIPHATIC WATER-BASED POLYURETHANE COATING WITH SATIN FINISH

Two-component, aliphatic water-based polyurethane coating with exceptional properties for a multitude of applications. It is especially indicated as a sealing layer to protect self-leveling, epoxy and polyurethanes. Excellent resistance to UV rays, chemical agents, water and abrasion. The product has high stain resistance and can be pigmented easily and simply with water-based pigment.

PROPERTIES

- Water-based product with quick and easy application.
- Protection of the support and anti-stain treatment.
- Fast curing.
- Easy to pigment with water-based pigment pastes.
- Long application period (Pot-Life).
- Good adhesion to concrete with high mechanical strength and resistance to abrasion.
- Excellent resistance to ultraviolet rays.
- Possibility of anti-slip finish.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:	Liquid
Packaging:	Transparent, 4 kg kit: Component A: 0.668 kg. Component B: 3.332 kg.
Colour:	Transparent satin finish. Can be pigmented with water-based pigment pastes according to the RAL colour chart.
Chemical base:	Two-component water-based aliphatic polyurethane
Mixing ratio by weight:	Component A: 16.7%. Component B: 83.3%. Approximate A:B ratio = 1:5.
Density at 20 °C*:	1 g/cm ³ (ASTM D1475 / DIN 53217 / ISO 2811)
Viscosity:	2,000-4,000 cP at 25 °C (ASTM D2196-86)
Pot life at 25 °C:	Approximately 30 minutes
Touch dry:	1-2 hours (25 °C, 55% RH)
Recoat time:	1-2 hours
Pedestrian traffic:	8 hours
Light traffic:	2 days
Full cure:	7 days
Substrate temperature:	> +8 °C to < +30 °C
Ambient temperature:	> +8 °C to < +30 °C

Minimum application temperature:	> +5 °C
Relative humidity:	< 80%
Substrate moisture:	Suitable for damp substrates
Taber abrasion resistance:	120 mg (CS-17, 1,000 cycles, 1 kg load)
QUV:	Passed 2,000 h (weathering resistance under cycles of 4 h UV at 60 °C and 4 h condensation at 50 °C, ASTM G53)
Volatile organic compound content, VOC:	0 g/l
EN 13813 Data: CE Marking	
Reaction to fire:	F
Release of corrosive substances:	SR
Water permeability:	NPD
Wear resistance:	AR1
Bond strength:	B1.5
Impact resistance:	≥ IR4
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

* Quality specifications.

MODE OF USE

Before applying FUTUR PROTECT TC FLOOR 2K, check that the support is clean, porous, level and free of dust, grease, oils, silicones, waxes, grouts, curing liquids or any contaminant that could impair adhesion. Control the dew point to avoid condensation and whitish spots. In concrete, a minimum compressive strength of 15 N/mm² and tensile strength of 1 N/mm² is required. If in doubt, carry out a previous test.

The ambient and support temperature must be between +8 °C and +30 °C, with a relative humidity of less than 80%. On epoxy or polyurethane self-leveling surfaces, no primer is required. On microcement, concrete or mortar, it is recommended to previously apply FUTUR PROTECT TC ANTISTAIN, with an approximate consumption of 100 g/m².

Pre-beat component B and then add component A. Mix using a low-speed electric stirrer, between 300 and 400 rpm, until a homogeneous mixture is obtained, avoiding incorporating air. The approximate weight ratio is A:B = 1:5. For colored finishes, add between 5% and 10% of compatible water-based pigment paste to component B.

Apply by roller or spray, in thin layers, with a total consumption of approximately 150-250 g/m² in a minimum of two layers. Avoid exceeding the recommended consumption, forming puddles or reviewing the product when it has begun to dry, as marks or whitish areas may appear.

Repainting will be done once the previous layer is dry, approximately after 1-2 hours. At 25 °C and 55% relative humidity, the approximate times are:

Pot life: 30 minutes.

Touch dry: 1-2 hours.

Pedestrian traffic: 8 hours.

Light traffic: 2 days.

Total curing: 7 days.

For non-slip finishes, corundum or anti-slip additive can be added in a proportion of 4% to 10%. In closed areas, adequate ventilation must be ensured during application and for a minimum of 24 hours afterwards.

Clean tools immediately after use with water. Once hardened, the product can only be removed by mechanical means. Store in its original closed container, in a dry and cool place, between +5 °C and +25 °C. Stability: 12 months from the date of manufacture. For applications subject to special chemical conditions, consult the technical department.

APPLICATIONS

Protective and decorative finishing of self-leveling epoxy and polyurethane floors.

Protective final layer for parking lots, pavements and industrial floors.

Increased resistance to abrasion and, when pigmented, to ultraviolet rays.

Sealing and protection of concrete, cement mortar and microcement.

Accepted supports: concrete, cement mortar, microcement and self-leveling epoxy or polyurethane coatings.

For other supports or special conditions, previously carry out an adhesion test or consult with the technical department.

The information and recommendations we provide are based on our research and experience and we believe them to be correct. Since the application of the products by our Customers is beyond our control, we cannot assume any liability arising from the misuse of our products.