

Syntech Pavicrom PU

Two-component, solvent-based polyurethane coating for colored finishes



Two-component aliphatic polyurethane coating, resistant to UV rays, coloured, in a vehicle solvent, for the glossy finish of concrete, fiberglass and steel surfaces.

CUSTOMS CODE:

COMPONENTS: Two-components

APPEARANCE: Liquid + Liquid

AVAILABLE COLORS: RAL classic

PACKAGING AND DIMENSIONS: Kit: 1 Can 6.7 kg [A] + 1 Can 3.3 kg [B] - Kit: 1 Can 3.3 kg [A] + 1 Can 1.7 kg [B] - Kit: 1 Can 13.4 kg [A] + 1 Can 6.6 kg [B]

OBTAINED CERTIFICATIONS AND REGULATIONS



FEATURES AND BENEFITS

- Excellent mechanical and abrasion resistance
- Wide range of colors available
- Uniform gloss finish
- Low maintenance over time
- Excellent resistance to UV rays and yellowing
- Resistant to atmospheric agents
- Possible non-slip finish
- Wide range of transparent finishes available
- Excellent resistance in aggressive atmospheres

FIELDS OF APPLICATION

Smooth or non-slip finish and coating, resistant to UV rays, water-repellent, with excellent abrasion resistance, for concrete and cementitious supports subject to mechanical stress;
smooth finish for fiberglass surfaces, polyurethane insulation and waterproofing systems;
colored coating of multilayer systems; colored coating for industrial floors of car parks, ramps, warehouses, etc. o concrete infrastructures such as bridges, viaducts, silos, tanks, pylons, etc.; smooth or non-slip finish and coating, on ceramic, clinker and porcelain stoneware surfaces;
Also suitable for steel supports, after appropriate preparation and priming of the support.

ALLOWED SUPPORTS

Concrete - Metal surfaces - Tiles - Resin coatings

PREPARATION OF SUPPORTS

Concrete

The surfaces to be coated must be stable, clean and free of substances that could affect the adhesion of the coating, such as dirt, grease, oil, residues of coatings and surface treatments, etc. The weak parts must be removed before applying the product by mechanical sanding with diamond discs and vacuum cleaning. The tensile strength of the concrete must not be less than 1.5 N/mm².

Wet supports

In case of residual humidity, apply two or more coats (depending on the irregularities of the support) of Syntech Pavidamp three-component epoxy primer. All cracks in the substrate must be treated and sealed before applying the three-component primer.

Resin coatings

The surfaces to be covered must be stable, clean and free of substances such as dirt, grease, oil, etc. which can affect the adhesion of the coating. Smooth the surface by mechanical sanding with diamond discs and vacuum. It is recommended to wash the surfaces and let them dry completely before applying the finish.

Steel

It is necessary to remove solder residues and grind the joints. Sandblasting at Sa 2½ according to ISO8501-1. The surfaces to be coated must be free of dirt, oil, grease and impurities. Average degree of surface roughness RZ ≥ 50 µm. An anti-corrosion treatment is recommended before applying the coating.

Ceramic coverings, glass mosaic, porcelain stoneware, clinker

Wash the ceramic surfaces to be treated with specific detergents to remove smog, dust, salts, etc. which block the pores to facilitate better capillary penetration of the primer onto the support.

Humidity control

Before installing resin systems and coatings, always check the residual humidity content.

Check for the presence of residual humidity with the plastic sheet method according to the ASTM D 4263 standard: fix a thick polyethylene sheet with a minimum size of 45x45 cm to the support with adhesive tape. 24 hours after installation, lift the sheet and check the presence of traces of humidity. When tested with a carbide hygrometer, the moisture content of the substrate should be < 4% by weight.

Primers

Concrete

The application of SYNTECH PAVICROM PU must always be preceded by the application of a coat of epoxy anchoring primer SYNTECH PRIMER EP-S. Wait 8-12 hours before applying the finish.

Resin coatings

The application of SYNTECH PAVICROM PU must always be preceded by sanding the entire surface in order to promote and guarantee optimal adhesion of the product to the support.

Ceramic surfaces, glass mosaic, porcelain stoneware, clinker

The application of SYNTECH PAVICROM PU must always be preceded by the application of a coat of specific primer SYNTECH PRIMER. Wait at least 6-8 hours before applying the finish.

MODE OF USE

Combine the two components in the indicated mixing ratio. Add component B (hardener) to component A (base) and mix well until a completely homogeneous product is obtained.

It is advisable to start mixing briefly with an electric drill at low speed and then intensify the stirring up to a maximum of 300-400 rpm. The product can be applied uniformly using a spray gun or short-haired roller to avoid accumulations of material which could give rise to aesthetic defects. The application of the product must be carried out by crossing the passes and paying particular attention to the shots, regularly unloading the roller beyond the applied area to obtain a uniform film and eliminate any accumulations of product. Apply one or more coats of Syntech Pavicrom PU respecting the consumption and thickness indicated. Wait approximately 12 hours, then apply the second coat of colored finish.

APPLICATION METHODS

Paint roller - Sprayer

TOOL CLEANING

Syntech Diluente Poliuretano



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KEY FEATURES

 Density: 1.15 ± 0.05 kg/l	 Max. recommended thickness: 70 µm
 Min. recommended thickness: 50 µm	 Pot-life: 2 h
 Shelf-life: 12 months	 Solvent-based product
 Temperature of use: +10 / +30 °C	 To be applied in two coats
 Use wearing protective gloves	 UV-resistant

TECHNICAL SPECIFICATIONS

EN ISO 178
Longitudinal elongation at break **10 %**

Persoz EN ISO 1522
Hardness **220 ± 5 s**

EN 1062-6
Permeability to CO₂ **Sd > 150 m**

EN ISO 5470-1
Resistance to abrasion **140 mg**

Maximum relative humidity **80 %**

EN 13501-1
Reaction to fire **Bfl s1**

Complete hardening at 20°C **7 day**

< 500 g/l

EN 1062-3
Capillary absorption **w < 0.1**

EN 1542
≥ 3 N/mm²

EN ISO 7783-1
Permeability to water vapor **Sd > 3.3 m**

Dry residue **55 ± 1 %**

Ford FC4 ASTM D 1200
Viscosity **80 s**

Working temperature **-20 / +70 °C**

Touch hardening at 20°C **4 - 6 h**

Time before second coat at 20°C **12 -24 h**

Resistant to chemical agents

CONSUMPTION

Approximately 0.15 - 0.20 kg of Syntech Pavicrom PU for each square meter of surface to be coated in two coats.

STORAGE AND CONSERVATION

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Protect from humidity. Store the product at a temperature between +10°C and +30°C.



ADDITIONAL CONTENT

Workability time

10°C	20°C	30°C
150'	120'	90'

Waiting time on your hands

	10°C	20°C	30°C
Minimum	16h	12h	8h
Maximum	24h	24h	24h

Thickness

	minimum	maximum	recommended
Dry	50 mm	70 mm	60 mm
Wet	125 mm	175 mm	150 mm

Commissioning

Temperature	Walkable	Light traffic	Heavy traffic
15 °C	24 h	48 h	72 h
20 °C	24 h	36 h	48 h
30°C	12 h	36 h	48 h

WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

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