

## FEATURES

Transparent, non-yellowing, water-dilutable, two-component acrylic paint, suitable for interior and exterior use for the protection of concrete and micro-cement surfaces or finished with decorative effects (including decorative lime finishes).

*Techcoat Pro* provides high resistance to water, abrasion, foot traffic and scratching and is therefore suitable for private or commercial civil construction such as shops, flats, hotels, showrooms, offices, museums and public buildings.

## COMPOSITION

Product formulated with high-quality hydroxylated acrylic resins in water emulsion, selected opacifiers and aliphatic polyisocyanate.

## PRODUCT

### PROPERTIES

	VALUE	METHOD
ABRASION RESISTANCE	EXCELLENT	
ELASTICITY	GOOD	
RESISTANCE TO WASHING WITH DETERGENTS	EXCELLENT	
RESISTANCE TO LIQUIDS	EXCELLENT	Internal PF23
HARDNESS	Pencil 8H	UNI EN ISO 15184
ADHESION	EXCELLENT	Internal PF16
DRY RESIDUAL BY WEIGHT	Comp. A: 32% ± 2 A + B: 40% ± 2	Internal PF25
DRYING	Overlapping 6-8h Complete 5 days	Internal PF2
POT-LIFE	2 h	Internal PF7

## SPECIFICATIONS

	VALUE	METHOD
SPECIFIC WEIGHT	1000-1100 g/l	Internal PF3
GLOSS Glossy	75-85	Internal PF6
Semi-gloss	30-40	
Opaque	10-15	

## STORAGE

The product is stable 1 year if stored in the original containers at a temperature between +5°C and +30°C.

## COLOURS

Colourless transparent.

## APPLICATION

It is used for the protection of cement and micro-cement surfaces and decorative coatings, including lime-based products, on vertical and horizontal surfaces. Techcoat Pro should be applied in a double layer.

## TOOLS

Brush, roller, spray.

## MIXING RATIO

100:25 with Induritore 1 by weight and volume.

## DILUTION

0-5% by volume with water when used as a top coat for *Microlite*  
10% by volume with water in all other uses

## YIELD

6.5 -7 m<sup>2</sup>/l in two layers (consumption 150 g/m<sup>2</sup> x 2 layers).

**APPLICATION** +15°C +30°C

**TEMPERATURE**

**PAINTING**

**SYSTEM**

**Freshly applied decorative paints**

1. Wait until the decorative coating to be protected has finished drying
2. Apply one coat of *Techcoat Pro*.
3. After 6-8h apply a second coat of *Techcoat Pro*.

**Existing decorative paints**

4. Dust and clean the surface to be treated thoroughly
5. Proceed as in point 2.

**Concrete constructions (walkable)**

General considerations:

for the work to be successful, the surface must be free of previous treatments and cleaned of pollutants of various kinds such as dirt, oil, grease and salts using industrial-grade alkaline detergents (washing, rinsing and collection of rinse water).

**CLS new**

The substrate must be finely finished and cured (100 days), with moisture content <5%, the surface must be free of dust and imperfections, and no cement slurry must appear.

Compressive strength: > 250kg/cm<sup>2</sup>

Tensile strength: > 150 kg/cm<sup>2</sup>

Porosity: pour water on the surface; if it is absorbed it can be painted otherwise treat with the descaling agent *Concrete Capgel* and after a few minutes rinse thoroughly and thoroughly taking care to collect the water.

Treatment with *Concrete Capgel* can also be carried out on damp surfaces that have just been cleaned with alkaline detergent. Once the operation is finished, *Techcoat Pro* can be applied after a minimum of 24 hours after measuring the moisture content of the floor, which must be less than 5%.

Alternatively, a porous surface can be created by mechanical abrasion using a shot peening machine or milling cutter; before applying the product, make sure that the surface is free of processing dust (suction).

If there are cracks: widen with abrasive grinding wheels and fill with epoxy filler filled with sand and/or cement.

1. Apply one coat of *Techcoat Pro* with a consumption of 150 g/m<sup>2</sup>.  
After 6-8h, apply a second coat of *Techcoat Pro* with a consumption of 150 g/m<sup>2</sup>

**MICROLITE system**

**TREATMENT OF HORIZONTAL AND VERTICAL CEMENTITIOUS SUBSTRATES**

- Apply a smoothing coat of *Microlite 500* using a steel trowel, ensuring that the smoothing coat is linear and free of defects/swelling.  
If cement substrates are in a very uneven condition, it is suggested to apply a second coat of *Microlite 500* to better even out the surface.  
In any case, the final layer of *Microlite 500* must be sanded down with an orbital sander and 40-80 grit paper.

- After approximately 3-4 hours, on a clean and dust-free surface, apply two coats of *Microlite 100* in the same colour, with 3-hour intervals between each coat, making sure that the shaving is linear and does not present any defects/shavings or ridges; for a finish without surface unevenness, you can proceed with light sanding on the final coat of *Microlite 100* or between the coats themselves using an orbital sander and 100-120 grit paper.
- After 3 hours, on a clean, dust-free surface, proceed with a two-coat application of *Techcoat Pro* protective topcoat, a transparent two-component acrylic paint, spacing the coats 6-8 hours apart.

#### TREATMENT OF VERTICAL PLASTERBOARD SUBSTRATES

- Apply a roller coat of *Acrilifix Special*, unthinned, to ensure consolidation, insulation and secure adhesion to the surface.
- After 5-8 hours, apply a smoothing coat of *Microlite 500* using a steel trowel, and proceed with sanding using an orbital sander and 40-80 grit paper.
- After approximately 3-4 hours, on a clean and dust-free surface, apply two coats of *Microlite 100* in the same colour, with 3-hour intervals between each coat, making sure that the shaving is linear and does not present any defects/shavings or ridges; for a finish without surface unevenness, you can proceed with light sanding on the final coat of *Microlite 100* or between the coats themselves using an orbital sander and 100-120 grit paper.
- After 3 hours, on a clean, dust-free surface, proceed with a two-coat application of *Techcoat Pro* protective topcoat, a transparent two-component acrylic paint, spacing the coats 6-8 hours apart.

N.B. In the case of professionally done slab and nail grouting, once *Acrilifix Special* has been applied, the application of the *Microlite 500* layer can be avoided by directly applying *Microlite 100*.

#### TREATMENT OF HORIZONTAL AND VERTICAL TILED SUBSTRATES

- Sand the surface using an orbital sander and 40 grit paper.
- On a clean, dust-free surface, apply a smoothing coat with a notched trowel of *Microlite 500* ready for use, with full coverage of glass fibre mesh with a specific weight of 90 g/sq.m., so as to even out the surface by masking tile joints.  
N.B.: the mesh should NEVER be overlapped but placed side by side; *Microlite 500* can be applied with a brush, possibly diluted up to 5% with water in the first coat to ensure better anchorage of the subsequent two ready-to-use coats applied with a trowel.
- After 3-4 hours, carry out a second layer of smoothing using a steel trowel with *Microlite 500* and proceed with sanding using an orbital sander and 40-80 grit paper.

- After approx. 3 hours, on a clean and dust-free surface, apply two shaving coats of *Microlite 100* in the same colour, making sure that the shaving is linear and does not present any flaws/blemishes or ridges; for a finish without surface unevenness, you can proceed with light sanding on the final coat of *Microlite 100* or between the coats using an orbital sander and 100-120 grit paper.
- After 3 hours, on a clean, dust-free surface, proceed with a two-coat application of *Techcoat Pro* protective topcoat, a transparent two-component acrylic paint, spacing the coats 6-8 hours apart.

N.B.: In all application phases of the *Microlite* system, the paper tapes used for masking doors, windows, skirting boards, etc., must be removed on each layer when the product is fresh before the applied layer has completely hardened, as it is easier to remove them; also note that all glass, wood and marble surfaces must be completely covered.

## SPECIFICATION ITEM

Transparent, water-dilutable, two-component, non-yellowing acrylic finish, suitable for protecting cement and micro-cement surfaces and decorative coatings on horizontal and vertical indoor and outdoor surfaces to be applied with an average consumption of 150 g/m<sup>2</sup>.

## WARNINGS

Specification data were determined at +23°C with 65% relative humidity of the environment. Under different conditions, data and times between operations vary. The technical information contained herein is indicative only. Due to the enormous variety of substrates and application conditions, it is advisable to check the suitability of the product for use and its effectiveness through tests carried out on the specific application.