



# EFFECTTO PU



## EFFECTTO PU Polyurethane microcement

**Effectto PU is a two-component water-based polyurethane microcement with high performance for continuous decorative finishes for both exteriors and interiors.**

**Effectto PU is available in a wide range of colours and three grain sizes: Big Grain, Medium Grain and Small Grain.**

### Properties

- Continuous seamless cladding (always respect expansion joints).
- It can be applied on almost any surface if it is level and consolidated, allowing any room to be renovated in vertical and horizontal planes.
- Applicable indoors and outdoors.
- Excellent workability and easy application.
- High hardness and good abrasion resistance.
- Greater impermeability than traditional microcement systems.
- Water-based and low in volatile organic compounds.

### Technical information

| PROPERTIES                   | SPECIFICATION            | UNIT              | METHOD               |
|------------------------------|--------------------------|-------------------|----------------------|
| Characteristics Comp. A      | Acrylic paste            |                   |                      |
| Non-volatile contents % Comp | 78-80                    | %                 | UNE-EN ISO 3251:2020 |
| Density Comp. A              | 1,6±0.1                  | g/cm <sup>3</sup> | UNE-EN ISO 2811-1    |
| Characteristics Comp. B      | Polyisocyanate aliphatic | g/cm <sup>3</sup> |                      |
| Non-volatile contents % Comp | 100                      | %                 | UNE-EN ISO 3251:2020 |
| Density Comp. B              | 1,14±0,1                 | g/cm <sup>3</sup> | UNE-EN ISO 2811-1    |
| Viscosity Comp. B            | 700-1500                 | MPa-s             | UNE-EN ISO 2555      |

| MIXING PROPERTIES<br>A+B (10:0,875)                | EFFECTTO PU COMPONENT A+B (10:0,875) |              |           |
|--|--------------------------------------|--------------|-----------|
|  | SMALL GRAIN                          | MEDIUM GRAIN | BIG GRAIN |
| Coverage Kg/m <sup>2</sup>                         | 0,250                                | 0,450        | 0,900     |
| Max. thickness per coat                            | 0,3 mm                               | 0,5 mm       | 0,8 mm    |
| Non-volatile contents % Comp A+B                   | 79-81                                | 79-81        | 79-81     |
| VOC's (g/L)  | <5                                   | <5           | <5        |
| Pot life (min)                                     | 60                                   | 60           | 60        |
| Taber abrasion (mg) (CS17, 1000g, 1000c) UNE 48250 | 122                                  | 87           | 61        |
| Shore D hardness (EN ISO 868:2003-10)              | 51                                   | 55           | 59        |
| Sanding grit                                       | 220                                  | 120          | 40        |
| Drying time between coats (h)                      | 12-24                                | 12-24        | 12-24     |
| Curing time (days)                                 | 7                                    | 7            | 7         |

## Preparation of the support

All surfaces must be level and consolidated. The surface to be coated must be clean and dry. It must be free from dust, grease, soaps, bad paint, etc.

The use of a primer such as PRIMECEM PLUS (non-absorbent surfaces) or PRIMACEM ABS (absorbent surfaces) is recommended to ensure perfect anchorage to the substrate, see technical data sheet for correct application. If the substrate is damp, use PRIMAPOX 100 BARRIER.

In tiles and other coverings with joints, it will be necessary to cover these joints previously with PRIMACEM JOINT and allow to dry for 24 hours before applying the primer; for correct application see product data sheet.

Depending on the ambient temperature of the work area, it is recommended to heat the area to an ideal temperature (20- 22°C) for the application work, which will favour a quick drying of the product. Do not aim directly at the coated surfaces with an air heater to force drying.

## Application

Once the substrate has been properly prepared, EFECTTO PU can be applied. Before starting the application, it is necessary to homogenise component A with the help of a mechanical stirrer or manually. To pigment, add to component A, the corresponding ARCOCEM® PLUS colour toner.

Then add component B on top of component A and mix with a mechanical stirrer at low speed. The ratio of the mixture is 10 parts of component A to 0,875 parts of component B.

Spread and smooth the microcement in a thin layer with the ATENEA anti-scald steel trowel and leave to dry between coats for a minimum of 12h and a maximum of 24h, depending on the environmental conditions at the time of application. For floor applications we recommend 2 coats of EFECTTO PU BIG GRAIN followed by 1 coat of EFECTTO PU MEDIUM GRAIN. For vertical applications two coats of EFECTTO PU BIG GRAIN followed by 2 coats of EFECTTO PU SMALL GRAIN. Sand each coat with the appropriate grit sandpaper (see technical information table).

The trowel should be positioned with respect to the plane of the substrate at an angle of about 45° in order to avoid very thin layers, which can cause burns that leave dark stains on light colours, or very thick layers, which would delay drying and the possible appearance of blisters or cracks. Do not apply fresh on fresh.

Before sealing EFECTTO PU microcement, it is recommended to let it dry for at least 48 hours. It can be sealed with any varnish from the TOPSEALER® family. It is recommended to apply two layers of TOPSEALER® DRAGON (see technical data sheet). The sealed system reaches maximum performance one week after the application of the last layer of varnish.

## Presentation

Component A: available in 10 kg  
Component B: available in 0,875 kg

## Cleaning of tools

The tools are washed with water immediately after use.

## Storage conditions

The product should be stored in its original closed container and protected from the weather at temperatures between 10°C and 30°C, in a dry and well ventilated place, away from heat sources and direct sunlight. The shelf life is 1 year from the date of manufacture, if stored properly.



The product must not be used for purposes other than those specified, without first having written instruction in its handling. It is always the responsibility of the user to take appropriate measures in order to comply with legislative requirements. The Safety Data Sheets of the product are available to the professional.

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