

Easycrrete PU.



Uses

EASYCRET PU is a two-component water-based polyurethane microcement with high performance for continuous decorative finishes for both exteriors and interiors. EASYCRET PU is available in a wide range of colours and three grain sizes: Basic Grain, Medium Grain and Thin Grain.

Properties

- Continuous jointless 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/cm³	UNE-EN ISO 2811-1
Characteristics Comp. B	Aliphatic polyisocyanate	g/cm³	
Non-volatile contents % Comp	100	%	UNE-EN ISO 3251:2020
Density Comp. B	1,14±0,1	g/cm³	UNE-EN ISO 2811-1
Viscosity Comp. B	700-1500	MPa-s	UNE-EN ISO 2555

MIXED PROPERTIES A+B (10:0,875)	EASYCRET PU COMPONENT A+B (10:0,875)		
	Thin	Medium	Basic
Yield Kg/m²	0,250	0,450	0,900
Max. thickness per layer	0,3 mm	0,5 mm	0.8 mm
Non-volatile contents % Comp A+B	79-81	79-81	79-81
VOCs (g/L) (Directive 2004/IIA(j))(140))	<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
Sandpaper grit	220	80	40
Drying time between layers (h)	12-24	12-24	12-24
Curing time (days)	7	7	7

Certifications

Tests CE marking according to harmonised standard EN 1504-2:2004	Services	Harmonised standard test
Determination of the permeability to liquid water	$w = 0,0022 \text{ kg}/(\text{m}^2 \text{h}^{0,5})$ W3	UNE-EN 1062-3:2008
Determination of water vapour permeability	SD = 8.46m Clase II	UNE- EN ISO 7783:2019
Determination of adhesion by direct traction	2.75 MPa (Rigid systems with traffic loads)	UNE-EN 1542:2000

Special precautions

All surfaces must be level and consolidated. The surface to be coated must be clean and dry. It must be free of dust, grease, soaps, paint in poor condition, etc.

The use of a primer such as PRIMACRETE PLUS (non-absorbent surfaces) or PRIMACRETE ABS (absorbent surfaces) is recommended to ensure a perfect anchorage to the substrate, see the technical data sheet for correct application. In the case of a damp substrate, use IMPOXY.

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

Depending on the ambient temperature and humidity, the drying time between layers may vary. It is recommended to carry out the application between 15-25°C and with humidity not exceeding 50%.

Application

Once the substrate has been properly prepared, EASYCRET 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 the corresponding COLORCRETE colour toner to component A.

Then add component B on top of component A and mix with a mechanical stirrer at low revolutions. The mixing ratio is 10 parts of component A to 0.875 parts of component B. The pot life of the mixture is approximately 60 minutes.

Spread and smooth the microcement in a thin layer with the FLEXBLADE anti-scald steel trowel and allow to dry between layers 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 layers of EASYCRET PU BASIC GRAIN followed by 1 layer of EASYCRET PU MEDIUM GRAIN. For vertical applications two layers of EASYCRET PU BIG GRAIN followed by 2 layers of EASYCRET PU THIN GRAIN. Sand each layer with the appropriate grit size (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 EASYCRET PU microcement, it is recommended to let it dry for at least 24 hours. It can be sealed with any varnish from the CONCRETE FINISH family. It is recommended to apply two layers of CONCRETE FINISH WT MAX (see technical data sheet). The sealed system reaches maximum performance one week after the application of the last layer of varnish.

Presentation

Component A

Supplied in 10kg packs.

Component B

Supplied in 0.875kg packs.

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 sources of heat and direct sunlight. The shelf life is 1 year from the date of manufacture, if stored properly.