ECOLANIC®

MICRO TOP LEVEL 1 COAT

SELF-LEVELING MICROCEMENT
MONOCOPOMPONENT POWDER

MICROLANIC®

Micro Top Level

Description, uses and consumption

Description

MICRO TOP LEVEL 1 COAT is a single-component, self-levelling microcement in powder form with infinite decorative possibilities, combining unlimited colours MICRO TOP LEVEL 1 COAT can be adapted to the particular design and mechanical resistance requirements of each project. It can be used on a wide variety of supports and surfaces, both for indoor and outdoor flooring.
At the forefront of contemporary architectural and decorative trends, its innovative formulation consisting of Ecocement, selected fillers, nano additives and VOC-free resins, makes it a coating as exclusive as it is sustainable.

Uses and fields of application

Once mixed with the simple addition of water, it is suitable for covering and decorating floors in commercial and residential spaces such as: shops, offices, restaurants, halls, exhibition areas, homes, theme parks, garages, terraces, high-traffic commercial premises, industrial warehouses, etc. Given its high power of adhesion on almost all types of surfaces such as concrete, mortar, tiles, stoneware, terrazzo, etc., after preparing the surface, it is the ideal decorative solution both in new construction and in renovation, thus avoiding the inconvenience and cost of demolishing the previous materials without increasing levels in excess.

Properties

- Normal setting; Pedestrian traffic at 24 hours.
- Pumpable and self-levelling.
- Thanks to its fluidity and extension, it achieves very smooth surfaces with high flatness.
- Compensated shrinkage (no cracking).
- High adhesion and hardness, both in mass and on the surface.
- High resistance to abrasion and impact.
- Impermeable to the passage of water, grease and oils with its finishing lacquers.
- High mechanical resistance.
- Stable against ultraviolet rays.
- Breathable
- It prevents the accumulation of bacteria and fungi.
- Greenbuilding Phiiosophy

Special precautions

- Not suitable for standing water or swimming pools.
- Perimeter joints should always be used and it is advisable to cut the structural joints in the concrete.
- Do not add more water than recommended to the product.
- Do not apply on floors with permanent humidity or susceptible to humidity by capillary rise. Nor in metal supports.
- Do not apply at temperatures other than +10 C° and 30 C°.
- Do not apply subsequent coats without prior preparation of the surface.
- During application, avoid draughts and direct sunlight on the material.
- In order to obtain floors with very good planimetry, the use of a laser will be required to take the measurements. Before pouring the product it is recommended to have calculated the thicknesses by laser to ensure a correct final planimetry.
- In case of large surfaces or high thickness, it should be pumped in sections according to the thickness, depending on the capacity of the mixing pump and the layer thickness required. Larger areas can be temporarily divided by means of delimiters. Likewise, in the case of very high thicknesses, it is advisable to make cuts every 50m² or so.
- For large surface areas, it is important that the preparation of the substrate and the application of systems finished with MICRO TOP LEVEL 1 COAT are carried out by specialized installation companies.

Consumption

The consumption per layer is approximately of:

± 1.7 kg/mm x m2.

Presentation

MICRO TOP LEVEL 1 COAT is presented in 20kg buckets

Packaged on 115x115cm pallet containing 36 units. Pallet of 720 kg

Application Rules

How to use

Preparation of the support

The substrate must be settled, dry, free of dust, grease and other impurities that could make adhesion difficult. If necessary, the substrate must be treated mechanically by means of mechanical abrasion or shot blasting. Any cracks or fissures in the screed must be previously repaired with MR TRIX or MICROREPARATOR.

POROUS SUBSTRATES
On porous substrates apply PRIMER DUR primer. Two coats of primer should be applied crosswise, the first diluted 1:1 with clean water and the second pure, leaving the necessary time between coats so that the primer is dry to the touch.

NON-POROUS SURFACES
On non-porous surfaces (e.g. ceramic tiles, terraces, etc.) apply the ECOPOXI PRIMER NP epoxy primer by roller, placing the PAVINET fibreglass mesh on the primed surface and dusting with fresh 0.4 mm quartz aggregate until saturated. After 24 hours, vacuum the excess aggregate and then apply a coat of PRIMER DUR diluted 1/1.

POROUS SUBSTRATES

Primer Dur

NON-POROUS SURFACES

Ecopoxi Primer NP + Mesh + Quartz 0.4

Materials employed

READ THE TECHNICAL SHEETS OF ALL THE PRODUCTS FOR THEIR CORRECT USE ON WWW.ECOLANIC.ES

Application Rules

How to use

Application of microciment

Once the support has been prepared, we move on to the application of the MICROCEMENT.

Knead MICRO TOP LEVEL 1 COAT with 4.8 litres of clean water per 20 kg bucket using an electric mixer or pumping machine. If the microcement is to be pigmented, the amount of pigment added in each case must be subtracted from the mixing water. Excess water causes segregation and weakens the surface resistance of the microcement, therefore the mixing water + pigment = 4.8 litres must be respected. Range of 40 colours.

In manual application, once the product has been kneaded and a homogeneous mixture has been obtained, pour the mixture onto the floor, spreading and smoothing it with a levelling trowel to obtain the desired thickness. When kneading with a beater, it is advisable to do so in a different container than the one that will be used to pour the product and take advantage of this to eliminate lumps by using a garbillo or similar.

In machine application, the flow properties of the product can be checked by means of a flow test with a cone before and during pumping, using a flow measuring ring and a plate. Pumping of the material should be done by placing the hose approximately 20 cm from the ground and applying fresh material on fresh material to avoid the inclusion of air. With high application thicknesses, it is advisable to vibrate the material immediately after pumping to facilitate the process of self-levelling of the mortar, integration of the material and removal of the bubbles and trails produced by the movement of the hose from the surface. In the application by pumping, it is recommended to place a mesh at the end of the hose to avoid the spillage of lumps and that the cord of material always goes fresh on fresh.

MICRO TOP LEVEL 1 COAT is a mineral floor and, therefore, it is normal that it presents water in the final finish depending on the way the material is worked (pouring, pumping, etc). The movement of the trowel should be natural, avoiding right angles that will later be reproduced. Avoid drops during pouring and stains before sealing the product.

Micro Top Level dumped

Micro Top Level extended

READ THE TECHNICAL SHEETS OF ALL THE PRODUCTS FOR THEIR CORRECT USE ON WWW.ECOLANIC.ES

Application Rules

How to use

Finishing and lacquering

After 24 hours of the application, apply a coat of Primer Dur diluted 1/1 with water and let it dry for at least two hours. Subsequently, a minimum of two coats of Pavilac Dur water-based matt/ satin polyurethane should be applied, crossed over with a short pile roller in 1 metre widths. It is advisable to shake the two components well beforehand and pour the hardener into the base and shake energetically until a homogeneous mixture is obtained, leaving the material to rest for a few minutes before application. The waiting time between the two coats is about 4/6 hours depending on the room temperature.

CHAPTER SUMMARY

1 coat of Primer Dur
2 or 3 coats of Pavilac Dur

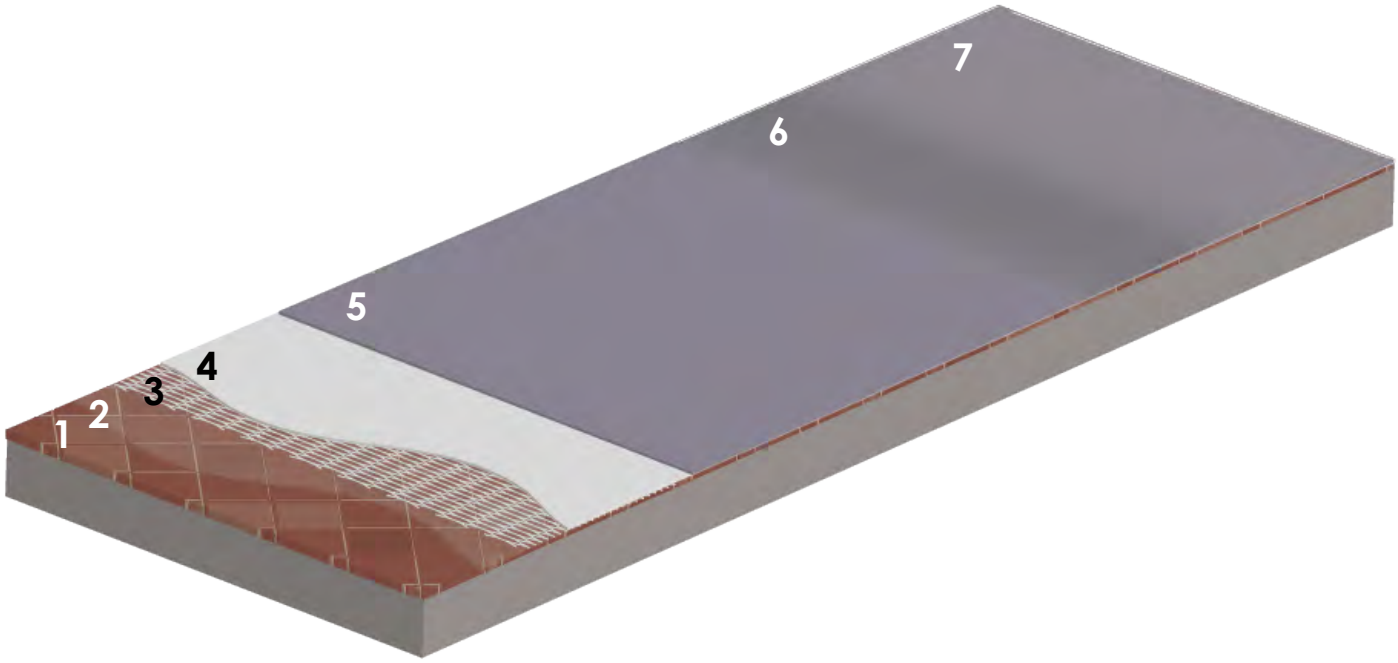
READ THE TECHNICAL SHEETS OF ALL THE PRODUCTS FOR THEIR CORRECT USE ON WWW.ECOLANIC.ES

Application Graphics

Above floor

1. Ceramic support
2. 1 coat of Ecopoxi Primer NP
3. Pavinet Mesh + 1 coat of Ecopoxi Primer NP
4. Sprinkle on Fresh Quartz 0.4
5. Micro Top Level 1 Coat 3mm layer
6. 1 coat of Primer Dur
7. Two coats of Pavilac Dur Water

** IN CASE OF POROUS SUPPORT, APPLY ON THE SUPPORT TWO CROSS LAYERS OF PRIMER DUR*



Technical data and final performance

Technical data

OF THE PRODUCT

Type: self-levelling microcement

Appearance: white powder

Apparent density: in powder form: 1000 ± 50kg/m^3

Density in paste: 2000 ± 50kg/m^3

Kneading water 4.8 l/bucket of 20 kg

Consumption 1.7 kg/mm-m2

Levelling cone 245-250 mm

Conservation 10 months

APPLICABLE

Working time (pot life) at 20ºC 15 to 20 minutes

Application temperature: Substrate: +10 to +25ºC ;Air: + 10 to +30ºC

Waiting time for pedestrian traffic 24 hours

Coating time: 24 hours in summer and 48 hours in winter

Commissioning time 7 days

Minimum application thickness 3 mm

Maximum application thickness 10 mm

Final resistances

Shrinkage (28 days) < 0,4 mm/m EN 13454-2

Adhesion on concrete > 1 MPa

Flexural strength (EN 13892-2)

> 5 MPa (at 24 hours)

> 6 MPa (at 7 days)

> 7 MPa (at 28 days)

Compressive strength (EN 13892-2)

> 10 MPa (at 24 hours)

> 20 MPa (at 7 days)

> 30 MPa (at 28 days)

Abrasion resistance (EN 13892-2) RWA10

Reaction to fire (EN 13501-1) Clase A2fl s1

pH of cured material Approximately pH 11

Slipperiness Class 1 (depending on the final coating)

Classification according to CE marking (EN 13813)

CT-C30-F7 RWA10

CE EN 13813 CT-C30-F7 RWA10

Applus Certification Technological Center

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

Ecolanic GREEN BUILDING Ecolanic

Colors:

High quality, highly resistant outdoor pigments.

We have a catalog of 40 colors.

Unlimited special colors via NCS/RAL chart

Note: ECOLANIC reserves the right to change any data without prior notice, if it deems it necessary.

Last update: 02-10-2020

Descriptive memory

SAFETY AND HYGIENE INFORMATION
For any information regarding safety issues in the use, handling, storage and disposal of chemical residues, users should consult the most recent version of the Product Safety Sheet.
Empty containers must be disposed of in accordance with current legal regulations.

STORAGE CONDITIONS
The life time of the material is 10 months from the date of manufacture provided it is kept in a dry place and protected from the weather.

NOTE: The instructions for use are made according to our tests and knowledge and are not binding. They do not free the consumer from the examination and verification of the products for their correct use. The company's liability will be limited to the value of the merchandise used.

DESCRIPTIVE MEMORY

Application of Ecolanic brand Microtop Level One Coat single-component self-levelling microcement system in powder form, 3mm thick, compression ≥30N/mm2, colour to be determined on sample card or NCS chart, on previously prepared horizontal support, on porous support with PRIMER Dur acrylic primer (minimum tensile strength of1.5 N/mm2 on cementitious support), and on Ecopoxi Primer NP ceramic support + Pavinet mesh + 0.4mm quartz powder. Pre-establish expansion and perimeter joints.

Complete the system with 2 layers of Pavilac Dur Gold Water-based polyurethane lacquer of the ECOLANIC brand.

The product must comply with the following technical characteristics:
Compression Resistance ≥30 N/mm2
Flexural Strength ≥ 7N/mm2
Abrasion resistance (EN 13892-2) RWA10
Reaction to fire (EN 13501-1) Class A2fl s1
Slipperiness Class 1 (depending on the final coating)

Classification according to CE marking (EN 13813) CT-C30-F7 RWA10