



ECOLANIC®

MONO-COMPONENT MICROCEMENT FOR CONTINUOUS FLOORING AND COATING

MICROLANIC



FIBER



Description, uses and consumption

Description

MICROLANIC is a range of single-component powdered microcements with infinite decorative possibilities, combining textures and colors without limit. The MICROLANIC collection is made up of 4 products, MH600, GRUESO, Path and FINE, with a diverse scale of granulometry, which adapt to the design requirements and particular mechanical resistance of each project. These four products allow us to respond to all types of supports and surfaces, both floors and coverings, intended for interiors and exteriors.

At the forefront of contemporary trends in architecture and decoration, its innovative formulation composed of Ecocement, selected fillers, nano additives and VOC-free resins, make it a coating that is as exclusive as it is sustainable.

Uses and fields of application

Once kneaded with the simple addition of water, it is suitable for covering and decorating ceilings, walls and floors of commercial and residential spaces such as: Shops, offices, restaurants, lobbies, exhibition areas, homes, theme parks, garages, terraces, premises high-traffic commercial, industrial warehouses, furniture, shelves, countertops, etc.

Given its high adhesion power on almost all types of surfaces such as concrete, tile, stoneware, terrazzo, wood, metal, etc. They make it the ideal decorative solution both in new construction and in rehabilitation, thus avoiding inconvenience and costs of demolishing previous materials without increasing levels.

Presentation

MICROLANIC is presented with four different granulometries.

Microlanic 600: Granulometry: ± 0.6 mm
Microlanic Thickness: Granulometry: ± 0.4 mm
Microlanic Path: Granulometry: ± 0.3 mm
Microlanic Fine: Granulometry: ± 0.08 mm

Packaged on a 120x80 pallet, 33 units
Microlanic 600: 20 kg cubes 660 kg pallet
Microlanic Thick: 20 kg cubes 660 kg pallet
Microlanic Path: 20 kg cubes 660 kg pallet
Microlanic Fino: 20 kg cubes 660 kg pallet

Properties

- Great resistance to abrasion and impact.
- Impervious to the passage of water, grease and oils with its finishing lacquers. Not suitable for stagnant water or swimming pools.
- High mechanical resistance.
- Stable against ultraviolet rays.
- High adhesion to supports of any nature.
- Breathable
- Prevents the accumulation of bacteria and fungi.
- Greenbuilding Philosophy



Special precautions

This product contains cement. Avoid contact with eyes and skin, as well as inhalation of dust. The use of a mask is recommended when making the mixture.

Use rubber gloves and protective glasses.
Keep out of the reach of children.

Do not apply the product at room temperatures below 5°C or above 30°C.

Consumption

The consumption per layer is approximately:

- ± 0.8 kg/m² . Microlanic 600
- ± 0.7 kg/m² . Microlanic Thick
- ± 0.7 kg/m² . Microlanic Path
- ± 0.3 kg/m² . Microlanic Fine

Application Rules



How to use

Support preparation

The support must be healthy, firm, free of dust or dirt, grease, paint, and correct any existing cracks or chips.

POROUS SUPPORTS

REGULAR POROUS SUPPORTS

Porous supports such as mortars, self-leveling plasters or absorbent plasterboard must be treated with our Agma CH sealant. This product acts as a regulator and absorption balancer prior to the application of Ecolanic microcement. Apply our Agma CH sealer in its pure state with a short-nap roller on porous vertical and horizontal surfaces and diluted 1/1 with tap water on very porous surfaces. At the same time, incorporate the PAVINET fiberglass mesh, gluing it to the support with the sealant itself.



IRREGULAR POROUS SUPPORTS

Those that present gaps, chips or shrinkage cracks (non-structural) must be previously corrected with our Microreparer, leaving a smooth and continuous surface. To do this, we will begin by sealing the support with our Agma CH to later correct the defects and planimetry with the Microreparer. . Once this step is completed, we will proceed to embed the PAVINET fiberglass mesh and cover it completely with a new layer of Microreparer. Lightly sand the surface, eliminating possible imperfections or slight unevenness and improving adhesion between coats.

Use 100-140 gram sandpaper. Once sanded, vacuum, clean and thoroughly remove dust from the entire surface. Apply a layer of Agma ch again to finish preparing the support.

Materials employed



READ THE TECHNICAL DATA SHEET OF ALL PRODUCTS FOR CORRECT USE
AT WWW.ECOLANIC.ES

Application Rules



How to use

Support preparation

CERAMIC/NON-POROUS SUPPORTS

In the case of a ceramic support, the preparation will be by milling, sanding or shot-blasting the surface layer of the enamel to open its pore. Clean and remove dust from the entire surface well.

Microrepair Option: Once the pore of the support is open, apply our pure Agma CH sealant over the entire surface.

Next, cover the entire support with a layer of Microrepaier, filling any gaps well, especially the ceramic joints. At the same time, place the PAVINET fiberglass mesh on top of the Microrepaier.

Subsequently apply a second layer of Microrepaier, leaving the mesh completely covered. Once cured, lightly sand the surface, eliminating possible imperfections or slight unevenness and improving adhesion between coats. Use 100-grit sandpaper

140 grams. Once sanded, vacuum, clean and thoroughly remove dust from the entire surface. Apply a layer of Agma ch again to finish preparing the support. Micro Repairer 25 Kg. One-component mortar with additives, ready to mix with tap water between 24 - 26%. (see technical sheet).

MR Elastic option:

In the case of supports where humidity can rise due to capillarity, such as outdoor terraces, showers or gardens and spas, replace the Microrepaier with MR ELASTIC. MR Elastic two-component (A 20 Kg + B 10 Liters - 30 Kg.), Mix parts A and B depending on the desired consistency following the instructions indicated in the technical sheet. Include PAVINET fiber mesh in your application. The mesh must be completely covered by the material (see technical sheet).

Ecopoxi Primer Option: The support must be firm (minimum tensile strength of 1.5 N/mm²), clean of dust, grease, oil, rest of old paint and dry (maximum permitted humidity 4%).

Ecopoxi Primer should not be applied on supports that present exudations and/or humidity (the product is not breathable). Once the pore of the support has opened, apply a coat of Ecopoxi Primer and, when fresh, place the PAVINET fiberglass mesh. The mesh must be completely adhered and without any type of fold. If necessary, apply a second coat of Ecopoxi Primer on the mesh.



Microrepaier



MR Elastic



Ecopoxi Primer

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Application Rules



How to use

Surface Preparation

POROUS AND CERAMIC SUPPORTS

CHAPTER SUMMARY

REGULAR POROUS SUPPORT: AGMA CH + MESH



AGMA CH



MESH

IRREGULAR POROUS SUPPORT:

AGMA CH + MICROREPAIRER + PAVINET MESH + MICROREPAIRER MESH COVER + AGMA CH



AGMA CH



MICROREPAIRER



MESH



MICROREPAIRER



AGMA CH

**CERAMIC SUPPORT OPTION 1: GRINDING OR SANDING + AGMA CH + MICROREPAIRER + MESH
PAVINET + MICROREPAIRER COVERING MESH + AGMA CH**



AGMA CH



MICROREPAIRER



MESH



MICROREPAIRER



AGMA CH

**CERAMIC SUPPORT OPTION 2: GRIND OR SAND + AGMA CH IN JOINTS + COVER JOINTS WITH
MICROREPAIRER + ECOPOXY PRIMER + PAVINET MESH**



AGMA CH



MICROREPAIRER



ECOPOXY PRIMER



MESH

In ceramic supports, cover the joints well with the sealant and the micro repair so that they are not transmitted to the outer layers.

**SUPPORT WITH RISK OF MOISTURE DUE TO CAPILLARITY (BATHROOMS, SPAS, CHANGING ROOMS ETC): AGMA CH +
MR ELASTIC + MESH + MR ELASTIC (Rough out or sand previously if the support is ceramic)**



AGMA CH

+



MR ELASTIC

+



MESH

+



MR ELASTIC

Application Rules



How to use

Application of Microcement

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

1) MICROLANIC THICK/600

One-component base microcement. Add tap water indicated in the technical table, mix and homogenize the product with a low-speed mechanical stirrer (300 to 500 rpm) for at least 3 minutes, let it rest for about 2 minutes and stir again until you obtain a uniform mixture free of lumps.

Apply a first layer of MICROLANIC GRUESO/600, after 4 to 6 hours, depending on the environmental conditions, apply a second layer. Keep in mind that the second layer must have a perfect planimetry; to do this, you must lightly sand the surface to eliminate possible imperfections or slight unevenness and improve adhesion between layers. Use 100-180 gram sandpaper. Once sanded, vacuum, clean and thoroughly remove dust from the entire surface. Depending on the desired aesthetic, these two products can be used directly as a decorative finishing layer with a rustic or natural appearance.



Application Rules



How to use

Application of Microcement

2) MICROLANIC FINE/PATH

One-component decorative microcement with medium and fine finish. Add tap water indicated in the technical table, mix and homogenize the product with a low-speed mechanical stirrer (300 to 500 rpm) for at least 3 minutes, let it rest for about 2 minutes and stir again until you obtain a uniform mixture free of lumps.

Add the chosen color TONER little by little to the MICROLANIC FINO/PATH using a mechanical mixer until the color adheres to the entire product.

homogeneous shape. Apply a first layer and after between 4 and 6 hours, depending on the environmental conditions, apply a second layer, repeating the same operation.

Keep in mind that the layers must have a perfect planimetry before applying a new layer. To do this, you must lightly sand the surface to eliminate possible imperfections or slight unevenness and improve adhesion between layers. Use 200-240 gram sandpaper. Once sanded, vacuum, clean and thoroughly remove dust from the entire surface.



CHAPTER SUMMARY

2 layers thick single-component microcement/600 + sanding + vacuuming

2 layers of fine/path single-component microcement + sanding + vacuuming

READ THE TECHNICAL DATA SHEET OF ALL PRODUCTS FOR CORRECT USE
AT WWW.ECOLANIC.ES

Application Rules



How to use

Finishing and Lacquer

It is very important to finish the system with PAVILAC DUR finishing lacquer. This provides the MICROLANIC system with greater protection, impermeability and hardness. It consists of a primer and a finishing lacquer.

1) Primer Dur + Pavilac Dur “S” SOLVENT

Dur Primer (Sealant). Apply it neat with a sprayer, going over it at the same time with our super flexible metal trowel or you can also apply it with a short-nap roller. Very important, do not skip this step before lacquering, in case of application on intense colors, dilute 1:1 with distilled water. You will notice that the application remains crystal clear and has a perfect finish. Distribute the material well, leaving the thinnest layer possible, avoiding accumulations of product.



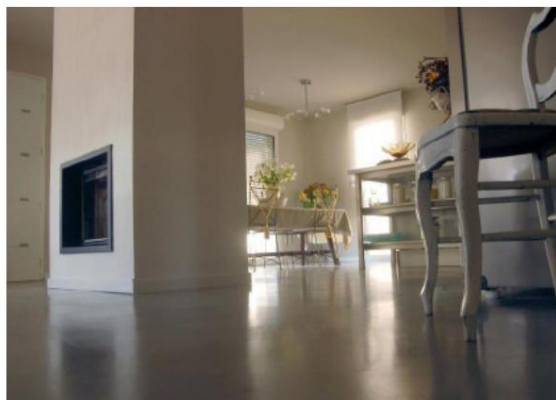
The system will be ready for the application of PAVILAC DUR SOLVENTE lacquer.

2) Pavilac Dur Agua “W” (water-based polyurethane lacquer)

You can choose either water-based lacquer or solvent-based lacquer. PAVILAC DUR AGUA does not need the prior application of PRIMER DUR.

Once the PRIMER DUR has dried (Only for PAVILAC DUR SOLVENT) at least 6 hours later, apply PAVILAC DUR WATER or SOLVENT by mixing “component A” + “component B” in whole or in part, maintaining the proportions. Apply it with a short-nap roller or airless spray gun (read technical sheet). A total application of two layers is necessary to guarantee the finishes and a third layer is recommended for high traffic places, humid areas (showers, spas, kitchens...), etc. The application between coats must have at least 6 hours of difference between them to obtain a good seal and curing of the product.

Once 24 hours have passed, the system is passable, although the recommended use is three days for normal traffic and 7 days for high traffic areas, wet areas (showers, spas, kitchens, etc.).



CHAPTER SUMMARY

1 coat Primer Dur / only with PAVILAC DUR “S” Solvent

2 or 3 coats of PAVILAC DUR “S” Solvent / PAVILAC DUR AGUA “W” (water-based polyurethane lacquer)

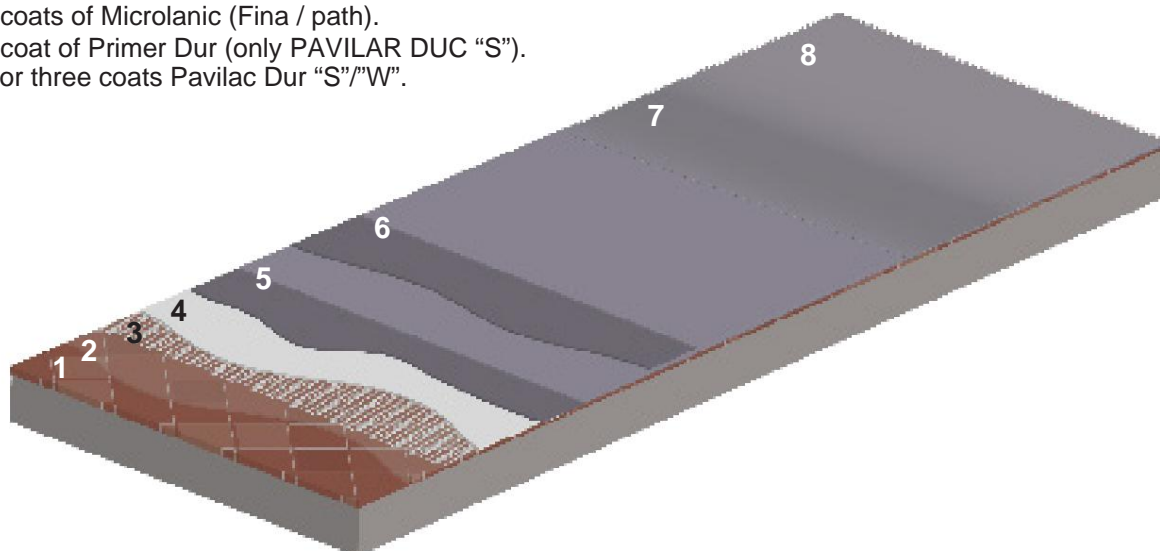
READ THE TECHNICAL DATA SHEET OF ALL PRODUCTS FOR CORRECT USE
AT WWW.ECOLANIC.ES

Application Graphics



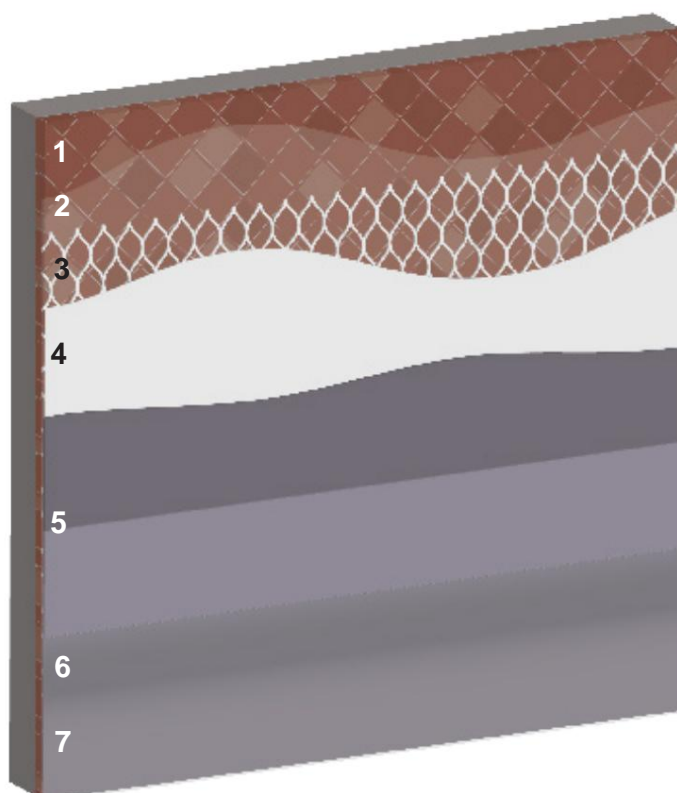
Above ground

1. Ceramic support / Porous support.
2. Agma Grip Sealant (Ceramic S.) / Agma CH (Porous S.).
3. Pavinet Mesh
4. A layer of Microrepair filler.
5. Two coats of Microlanic (Base/Thick).
6. Two coats of Microlanic (Fina / path).
7. One coat of Primer Dur (only PAVILAR DUC "S").
8. Two or three coats Pavilac Dur "S"/"W".



On Indoor Wall

1. Ceramic support / Porous support.
2. Agma Grip Sealant (S. Ceramic) / Agma CH (S. Porous).
3. Pavinet Mesh
4. A layer of Micro-Repair filler
5. Two coats of Microlanic Monocomponent (Fino/Path)
6. One coat of Primer Dur (only PAVILAR DUC "S").
7. **Optional:** Two or three coats Pavilac Dur "S"/"W".



Technical data and features



Technical data

Type: One-component microcement.

Appearance: White powder.

Apparent density: Powder: $\pm 800 \text{ kg/m}^3$.

Paste density: $\pm 1,300 \text{ kg/m}^3$.

Solids content: 100%

Mixture use time: $\pm 60 \text{ min.}$

Granulometries:

Microlanic 600: $\pm 600 \mu\text{m}$

Microlanic Thickness: $\pm 400 \mu\text{m}$

Microlanic Path: $\pm 300 \mu\text{m}$

Microlanic Fine: $\pm 80 \mu\text{m}$

Addition water:

Microlanic 600: $\pm 22\%$

Microlanic Thickness: $\pm 24\%$

Microlanic Path: $\pm 26\%$

Microlanic Fine: $\pm 35\%$

Colors:

Pigments of high quality and resistance in exteriors.

We have a catalog of 40 colors.

Unlimited **special colors** through

NCS/RAL letter

Final resistances

Adhesion resistance (UNE-EN 13892-8:2003):

$\geq 2 \text{ N/mm}^2$

Compression resistance (UNE-EN 13892-2:2003):

Microlanic 600 $\geq 30 \text{ N/mm}^2$

Microlanic Thickness $\geq 30 \text{ N/mm}^2$

Microlanic Path $\geq 30 \text{ N/mm}^2$

Microlanic Fine $\geq 35 \text{ N/mm}^2$

Flexural resistance (UNE-EN 13892-2:2003):

Microlanic 600 $\geq 9 \text{ N/mm}^2$

Microlanic Thickness $\geq 9 \text{ N/mm}^2$

Microlanic Path $\geq 9 \text{ N/mm}^2$

Microlanic Fine $\geq 10 \text{ N/mm}^2$

Determination of the transmission index of liquid water (UNE-EN 1062-3:2008) W2

According to UNE-EN 13813:2003 regulations

Microlanic 600, Coarse and Path Class: C30 F7 A22 B2

Microlanic Fine Class: C35 F10 A22 B2



SAFETY AND HYGIENE INFORMATION

For any information regarding safety issues in the use, handling, storage and disposal of waste chemicals, users should consult the most recent version of the product Safety Data Sheet.

Empty containers must be disposed of in accordance with current legal regulations.

STORAGE CONDITIONS

The shelf life of the material is 12 months from the date of manufacture as long as it is stored in a dry place and protected from the elements.

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

Descriptive memory



Descriptive memory

Application of Microlanic one-component porcelain microcement system from the Ecolanic brand, 4mm thick, compression $\geq 30 \text{ N/mm}^2$ including base layers and fine or medium aesthetic finish, color to be determined on sample book or NCS chart, on previously prepared Vertical/Horizontal support, (minimum tensile strength of 1.5 N/mm^2 , with a maximum difference of less than 3mm and pre-established expansion joints.

Finishing the system with 3 layers of water-based polyurethane lacquer Pavilac Dur Gold Agua from the ECOLANIC brand.

The Product must meet the following **technical characteristics**:

Compression Strength $\geq 30 \text{ N/mm}^2$

Flexural Strength $\geq 9 \text{ N/mm}^2$

Determination of liquid water transmission index: W2