PROLAT NATURAL INNOVATIVE MATERIALS

XIROPIGADO 196 00
MANDRA ATTICA, GREECE
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INFO@PROLAT.GR, WWW.PROLAT.GR

Revision No.v1
Revision Date: 06/2024

TECHNICAL DATA SHEET

MICROCEMENT COATING LAVAPLASTER

DESCRIPTION

Ready to use colored decorative microcement coating in the form of ultra-fine powder, with quartz sand and Aalborg cement from Denmark with very low alkali, reinforced with fibers, reinforced with natural pozzolanic materials, fully waterproof, for applications with a maximum thickness of 3-4 mm.

APPLICATION AREAS

Can be installed indoors, on walls, floors, stairs, counters, bathtubs, plywood, plasterboard and cement boards.

Advantages

• Absolutely smooth surface without cracks and capillaries.

• The result is completely waterproof.

• Ensures excellent adhesion and high mechanical strength, even in coatings for underfloor heating systems

APPLICATION INSTRUCTIONS

Surface preparation

• The substrate for the floor should be the classic smooth cement mortar for tiles (river sand or sea sand with cement).

• The substrate for benches and stairs should be a smooth cement-sand mortar.

• Wall primer should be the last, thin layer of marble plaster.

• The substrate should be statically adequate and free from dust, oil, loose materials, etc. It should also first be smoothed with sandpaper.

Application

Step 1: Create adhesion on glossy-non-absorbent surfaces: Apply quartz primer (LavaContact). Consumption: 0.25kg/m^2 Surface preparation: Surfaces must be dry, free of oil, dirt and loose spots

Application: Stir the material well in the container and then apply a layer with a roller

Step 2: Surface leveling-reinforcement (Betofix: Resinous quartz putty, suitable for smoothing surfaces before final application of the microcement coating. Consumption (total): 2.5-3 kg/m^2.

Surface preparation: To ensure good adhesion of the material, the surfaces must be stable, free of dust, oil and loose spots.

Application: (2-3 hours after the application of LavaContact): In a mortar mixing container, gradually pour the Betofix powder into clean water, in a proportion that serves according to the use and application conditions, and stir with a drill, until it is created a homogeneous, lump-free mass. Next, we apply a layer of Betofix material to the surface using a straight spatula and then encase the anti-alkaline Lavaplaster Mesh. After the first layer has dried (after 4-6 hours), apply a second layer again with a straight spatula, until the grid is completely covered.

Step 3: The next day, after the material has dried well, we can sand the substrate where necessary with No. 80 sandpaper, in order to create a completely smooth-leveled surface, suitable for the application of the final Lavaplaster.

Step 4: Applying the final Lavaplaster in 2 layers.

Consumption (total): 1.5kg/m^2.

Application: (after the surface is well wiped from the dust created after rubbing the substrate) We add to each container of Lavaplaster clean water in a proportion that serves us (~4-5lt per 15kg container depending on the application conditions and how much fluid we want to make the final mixture) and stir with a drill, until a uniform mixture without lumps is created. Then, we take 1 container-dosage of Coloring Powder (pigment) for a 7.5kg Lavaplaster container or 2 containers-doses for a 15kg Lavaplaster container, add water and, after tightly closing their lids, stir vigorously until we ensure that the pigment is broken completely and the solution is homogenous without

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precipitated dye residues. Then, pour the pigment containers into the prepared Lavaplaster mixture and stir for 2-3 minutes, until the entire material is colored. Next, we apply a layer of the colored Lavaplaster and after it dries (after 4-6 hours), if we deem it necessary, lightly sand the surface with No. 180-220 sandpaper, wipe off the remaining dust thoroughly, create a new mixture and apply the second layer to the which we also do the final texture ("clouds", "steps", "waters").

Step 5: After 24 hours have passed after the final coat and once the Lavaplaster has completely dried, the surface can be lightly sanded with #180-220 sandpaper to smooth out any imperfections. We then wipe the surface thoroughly and use a well-wrung mop or cloth to ensure that every trace of dust is removed.

Step 6: Protection of Cement Mortar (with varnish system)

a. LavaDrops Primer varnish primer. Consumption: 0.1kg/m^2. Application: Once the Lavaplaster is completely dry, apply a layer of LavaDrops Primer with a short-hair roller to the entire surface.

b. Final 2-component Water Polyurethane varnish (LavaDrops Plus) in 2 layers. Consumption (total): 0.1kg/m^2. Application: The day after the application of the LavaDrops Primer, we take ½ of the required amount of the 2 components of the LavaDrops Plus varnish in a ratio of 10:1 (A+B), adding gradually and with constant stirring the B′ component into the A′ with a low speed drill until a homogeneous material is created. Then, dilute the mixture by 5% with clean water and apply a layer with a short-haired roller to the entire surface. After 6-12 hours, we mix the two components of the remaining varnish in the same way and apply the second and final layer, ensuring uniform coverage of the entire surface and taking care to pass and gather-sum the varnish correctly, in order to avoid marks created by the passage.

Caution: Since after mixing the two components the material is workable for ~1 hour, corresponding working mixes must be created according to the above instructions. For this reason, a precision scale is required, as inaccurate mixing of the two components will lead to a material that will not be able to polymerize and, by extension, harden.

• The set to foot traffic is at least after 24 hours, while 7 days are required to develop the final strengths

MAINTENANCE

No special maintenance required, just standard cleaning with common household cleaners. Also, the use of heavy machinery without first taking protective measures (pallet trucks, etc.) should be avoided.

STYLES

Classic, Concrete Board, Forest, Rough, Wooden floor, Acid Free, Palm.

CLEANING

Clean the tools immediately after use with water.

STORAGE

24 months from the date of production in unopened package kept in a dry place

SAFETY

Read carefully the label of the product before use. Detailed instructions regarding hazards and safety are provided in the Safety Data Sheet, which is available upon request.

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Techinical Data (Measurement conditions 23°C and 50% R.H.)**:**

Form	cementitious powder	**Compressive strength**	45,7N/mm^2
Color	>130 shades	**Adhesion strength**	1,5N/mm^2
Granulometry	0 to 600 μm	**Elastic modulus**	≥ 15 GPa
Application temperature	from 5 ºC to 35 ºC	**Resistance to carbonation**	Pass
Specific gravity of dry mortar	1320 Kg/m^3	**Chloride ion content**	≤ 0.05%
Specific gravity of wet mortar	1390 Kg/m^3	**Capillary water absorption**	≤ 0,5 kg/m^2 min^{0,5}
Coherence	153 mm	**Reaction to fire**	Class A1
Pot life	1-1,5hrs at +20ºC		

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NOTICE

The technical information and instructions provided in this datasheet referring to the application and end use of PROLAT products are based on the company's expertise and experience with the products to date. They are provided in good faith under the condition that the products are stored, used, and applied in accordance with PROLAT's instructions. However, given our inability to directly oversee conditions at construction sites or during product application, the company cannot guarantee the suitability of its products for specific purposes, nor does it assume any legal responsibility based on the information provided in this brochure, whether written, oral, or otherwise communicated. Users are advised to conduct a small test to assess the suitability of the products for their intended application and purpose of use. The company reserves the right to modify the properties of its products without prior notice.

CE

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PROLAT S.A.
Production of Minerals and Mortars
Afroditis 50 - P. Faliro, PC:175 61, Greece
DoP No: 034-PROLAT-CPR

EN 1504-3:2005
LAVAPLASTER
Concrete repair product for structural repair PCC mortar (based on hydraulic cement, polymer modified)

Compressive strength: class R3
Chloride ion content: ≤ 0.05%
Adhesion: ≥ 1,5 MPa
Carbonation resistance: Pass
Elastic modulus: ≥ 15 GPa
Thermal compatibility part 1: ≥ 1,5 MPa
Capillary absorption: ≤ 0.5 $kg \cdot m^{-2} \cdot h^{-0.5}$
Dangerous substances: comply with 5.4
Reaction to fire: Euroclass A1

CE

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PROLAT S.A.
Production of Minerals and Mortars
Afroditis 50 - P. Faliro, PC:175 61, Greece
DoP No: 035-PROLAT-CPR

EN 13813:2002
LAVAPLASTER
Cementitious screed material for use internally in buildings

Reaction to fire: Euroclass $A1_{fl}$
Release of corrosive substances: CT
Water permeability: NPD
Water vapor permeability: NPD
Compressive strength: C40
Flexural strength: F6
Wear resistance: NPD
Sound insulation: NPD
Sound absorption: NPD
Thermal resistance: NPD
Chemical resistance: NPD