

NATURAL SURFACE BASE MR01

TECHNICAL DATA SHEET

Decorative continuous lining,
without need of joints

1.5-2.5mm natural stone finish without joints

High level of
adherence over any
type of surface

Easy sanding

High level of
resistance to
abrasion

Interior and exterior



Commitment with the environment

NATURAL SURFACE BASE MR01-TECHNICAL DATA SHEET

The **NATURAL SURFACE BASE MR01** is a special cement coating, with synthetics resins, special sands and selected minerals that is applied manually with a steel trowel, whether in interiors as exteriors.

It must be applied in layers of 1 mm maximum. It is used for the PREPARATION in baths of any type of support, covering of joints in wall or floor tiles, for the subsequent application of fine Microcement, both indoors and outdoors.

It is used to level the surfaces, like floors, walls and ceilings, etc. This prepares in an optimal way the surface for the application of the **NATURAL SURFACE DECK MR02**.

We have successfully developed the first and only high-hardness microcement in the market, addressing the issue of low hardness commonly found in traditional microcements. This breakthrough innovation ensures exceptional durability and performance, setting a new standard for microcement applications.

CHARACTERISTICS AND ADVANTAGES

NATURAL SURFACE BASE MR01 stands out for its high hardness, enabling the regularization and/or preparation of different substrates.

NATURAL SURFACE BASE MR01 are:

- It has superior hardness compared to any other microcement on the market.
- Excellent adhesion on any support.
- Great elasticity, which allows it to resist large tensions or building movements.
- Ideal product for preparing supports and covering tile joints, tile, stoneware, porcelain, etc.
- Fast and clean jobs.
- Compared with other microcements, 90% less dust when sanding.
- Possibility that it is pigmented with any universal pigment and in a tintometric machine.
- Ideal for application on walls and floors of bathrooms and showers.
- Possibility of making an extensive range of colors.

TECHNICAL DATA

Type	Three-component
Presentation	White cream powder infused with a touch of finely ground black mineral particles
Granularity	0.7 mm
Apparent material density	1.5 ± 0.2 g /cm ³
Mixed product density	1.7 ± 0.2 g/cm ³
Mixing Relation	Product Ready-to-Use. Add a 15% of water, 15% of resin SR01, 15% of resin SR02
Efficiency	1.3kg/m ² /mm
Application Temperature	+ 5° C / + 35° C
Mixed product - Validity	Aprox. 2 h according to environmental conditions
Initial Adherence (traction)	>0.4 N/mm
Adherence to concrete	A 28 d:superior to 19 kg/cm ²
Adherence after humidity	1N/mm ²
Mechanical Resistance	Compression at 28 d superior to 75 kg/cm ²
Drying time	6 – 12 hours to 20° C / 60% Relative Humidity
Adherence after 24 hour	>0.5 N/mm ²
Adherence after 28 days	1.5 N/mm ²
Flexibility resistance after 28 days	9.5 Mpa (N/mm ²) UNE 13892 2
Resistance to compression 48 hours	43.5 Mpa
Resistance to compression 28 days	75.5 Mpa
Resistance to bacteria development	0.99
Thermal stability	- 20° C / + 90° C
Combustion point	Not flammable
Shipping	Material considered not dangerous
Storing	Not dangerous for storing

SURFACES

The supports where **NATURAL SURFACE BASE MR01** is applied should be resistant and clean, stable, free of dust, grease and any material that hinders its adherence.

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For a correct application of **NATURAL SURFACE BASE MR01**, it is necessary to have a completely rigid support, without movement or expansion. Never apply on a bad shape surface such as broken tiles or bad paint.

NATURAL SURFACE BASE MR01 can be applied on walls and floors, indoors and outdoors, on an infinity of supports such as:

- Paint.
- Cement and plaster.
- Wood and Plasterboard.
- Tile, ceramic and porcelain.
- Marble and granite.

INSTRUCTIONS FOR USE

Mix **NATURAL SURFACE FACE MR02** with 15% **NATURAL SURFACE SR01**, 15% **NATURAL SURFACE SR02**, and 15% water. Use an electric mixer to blend the contents in the container until achieving a perfect and uniform mixture.

There should be sufficient time between the application of the first and second layers of **NATURAL SURFACE BASE MR01** for the product to dry completely when touched, typically taking around 6 to 12 hours. However, the actual drying time depends on the temperature, ventilation, and humidity present at the site.

It may be necessary to apply up to 3 layers of **NATURAL SURFACE BASE MR01**, depending on the initial condition of the surface, until you achieve a perfectly smooth finish.

If applying the product on a tiled wall, you should apply sufficient layers to completely cover the entire tile surface and its joints.

The application is done manually, using a steel trowel to apply the product in thin layers of 1mm. Do not apply layers thicker than 1mm.

Once the layer is dry, sand it with 80-grit sandpaper and remove any resulting dust using a vacuum cleaner.

PRECAUTIONS

Never apply the product on substrates that are wet, damp or have capillary moisture. Do not apply the product if there is humidity in the environment of more than 50%.

Do not apply in layers greater than 1 mm.

Do not apply with risk of frost or rainy weather. Do not apply at temperatures below 5°C or above 35°C.

Never leave the last layer in half, once begun continue until its completion without stoppages, so that no cuts or joints. If the surface is very large, the application must be made by several people at the same time.

Use the appropriate PPE, contains cement, irritates the eyes. Do not put within the reach of children, avoid contact with eyes and skin through the appropriate PPE. In case of contact with the eyes, rinse thoroughly with water and consult your doctor in case of subsequent discomfort.

EFFICIENCY

The efficiency is approximately 1.3 kg/m² for applying two layers, each layer within 1mm thickness.

STORING

In a dry place protected from bad weather in its original recipient hermetically closed.

NATURAL SURFACE BASE MR01. Our systems are based in the research done at our laboratories and the many years of practical experience we have. We guarantee that our products are manufactured, packaged and labeled under the rules of Normative ISO 9001:2008. We decline any responsibility if the end result is affected by external factors not under our control. The end user must check that the product supplied is adequate to the needs that is going to be used for, doing a test in any case that must be necessary.

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The present document cancels the earlier editions.

