

MATÈRIKA[®]

Essenza di resina



TROWEL APPLIED MONOCOMPONENT RESIN, FOR INTERIOR DECORATION OF FLOORS AND WALLS

Color
NEUTRAL (to be coloured with
appropriate colouring pastes)

Average consumption on smooth surface
min. 1,6 kg /m² (2 coats)

Average consumption with FV 70 Net
min. 1,3 / 1,5 kg/m² (1 coat)

Average consumption with FV 160 Net
min. 1,4 / 1,7 kg/m² (1 coat)

Packaging
1Kg • 3Kg • 5Kg • 10Kg • 20 Kg

MATÈRIKA is a monocomponent resin paste applied by trowel for the decoration of interior walls and floors. The exclusive MATÈRIKA formulation made from selected resins and microfibers, bestow an abrasion resistant aesthetic finish and can withstand structural micro movements. MATÈRIKA can be easily applied directly on the normal surfaces (screeds, tiles, plasterboard, plasters, etc.) in the desired colour, thanks to water-based colouring pastes (also integrated tinting systems). It is solvent free.

Use

MATÈRIKA is used indoors, for a decorative and aesthetic effect on walls and floors: homes, offices, shops, showrooms, hotels, etc. Creating a smooth or hard surface, depending on the aesthetic aspect required and the type of work performed.

Advantages

- Unique aesthetic features
- Strong and resistant
- Fast implementation
- No invasive and expensive preparations
- Different surface roughness
- Various colours
- Applicable on walls and floors

CE

EN 13501

How to use

Surface quality

The substrate must be mature, structurally stable and free from dirt, efflorescence, moisture, oils, grease, etc.

Do not apply on substrates subject to negative humidity pressure and which contain a degree of humidity higher than 3.5% (measured with a specific calcium carbide instrument). In such or different conditions contact our Technical Department.

Any traces of previous coatings and loose materials that could compromise the adhesion of the product must be removed with appropriate machinery. The indicated consumption are for a perfectly smooth surface.

The product is fibre-reinforced and does not require any reinforcement when applied on surfaces (walls and floors) for up to a maximum of 20 square meters (solid and dust free).

For pavements over 20 square meters use the FV 160 net;

For walls over 20 square meters, use the FV 70 net.

Surface preparation

• **Concrete support, traditional and / or premixed screed.**

MATÈRIKA must be applied on suitably roughened cement support, made with the use of special machinery equipped with an abrasive disk (sanding, etc.). Carefully eliminate any inconsistent parts, oils, greases and anything else that could compromise the perfect adhesion of the product. Dust must be completely removed. Consolidate the support using K PRIMER (as technical sheet).

After 3 hours and no later than 12 hours, apply MATÈRIKA in several coats with a trowel, until a homogeneous surface is obtained.

With regards to substrates made of traditional and / or premixed concrete and covering an area of more than 20 square meters, lay the glass mesh and apply over the first coat of MATÈRIKA (in this case a further application of material is required, with consequent increase in consumption).

• **Ceramic tile support**

Remove any trace of oils, grease, old paint and anything else that could compromise the correct adhesion of MATÈRIKA from the tiles.

Check the tile adhesion to the support and if necessary remove the detached

ones and fill them using NAI CM RE-LEVEL or NAI CM AUTOLIVELLANTE cementitious mortar.

Tile Grout, 2,5mm or more must be sealed and brought to level with MATÈRIKA, eliminating the thickness of the joint completely. Wait for the product to dry before continuing with the works. In case of a very smooth surface it is advisable to apply a first coat with the use of a brush to facilitate the successive trowel applications.

Apply MATÈRIKA in several coats with a trowel (usually two coats are sufficient), until a homogeneous surface is obtained. For surfaces of more than 20 square meters, lay the glass mesh as previously indicated during the first coat of MATÈRIKA (in this case a further application of material is necessary, with consequent increase in consumption).

• **Support consisting of cement and / or premixed plaster**

Make sure the plaster is well adhered to the substrate. Roughen the surface with the use of an abrasive machine and remove dust. Consolidate the support using K PRIMER (as technical sheet). After 3 hours and no more than 12 hours, apply MATÈRIKA in several coats (usually two coats are enough) with a trowel, until a homogeneous surface is obtained.

In case of a healthy support it is possible to apply MATÈRIKA without reinforcement, give the area is not more than 20 square meters. Otherwise, if the substrate exhibits lesions, or in the case of a surface exceeding 20 square meters, it is necessary to implement the FV 70 glass net, mesh during the first coat of MATÈRIKA (in this case a further application of material is necessary, with a consequent increase in consumption).

• **Support in natural plasterboard**

Clean the surface and apply a brush coat of MATÈRIKA or K PRIMER.

Seal the interstices between the panels with a FV 70 glass net and MATÈRIKA, afterwards apply the product on the entire surface of the panels up to the required consumption.

Product preparation

MATÈRIKA is colourless and can be coloured with water-based colouring pastes (also integrated tinting systems). It is advisable to add 3% of colouring paste to the total product weight (30-g per 1 kg), reaching a maximum of 5% (max 50

MATÈRIKA®



Mixing the product



First coat



Second coat



K Gel



K Finish or K Finish Mono



K Wax opaque or semi-glossy effect

g per 1 kg) for colour correction.

Keep in mind that the colouring pastes may affect the viscosity of MATÈRIKA.

To ensure perfect colour homogeneity, mix the product well using shaking or mixing machines.

When using different colouring products, colouring charts or tinting systems, the colour may differ (greater or lesser extent) the product aspect and the visual light effect. In order to obtain the desired colour, it is advisable to carry out some samples before. Keep in mind the fact that, due to its peculiarities and the reasons described above, the result can never be identical to a reference of a different colour product. In addition consider any colour changes at product dry and the shading given by finishing coatings (polyurethane, wax, etc.). Before proceeding with the application, it is necessary to mix the product well inside the package with a low speed mixer.

Application of the material after the surface preparation.

Apply MATÈRIKA with a smooth steel trowel on the surface, in several coats (minimum two), depending on the type of substrate and the desired effect.

To obtain enhances the appearance of the material undulate the trowel strokes during the application of the last coat.

The minimum consumption on a smooth surface is about 1.6 kg / m² in two coats. It is possible to realize different grades of roughness:

The greatest and most realistic degree is obtained with the sole application of MATÈRIKA, in the previously indicated modalities.

To obtain smoother surface at product dry apply one coat of MATÈRIKA LIGHT, for an average consumption of approx. 0.450 kg /m² (see the product technical sheet).

To have an even smoother surface, after drying, you can refine MATÈRIKA directly with one or two coats according to the desired aesthetic effect, by MATÈRIKA EXTRALIGHT, for an average consumption of approx. 0,300 - 0,400 kg/m² for coats. (see the product technical sheet)

To achieve the veiling effect, you need to complete the system with MATÈRIKA EXTRALIGHT, which can be coated with one coats of MATÈRIKA SOFT, for a average consumption of about 70 g/m² (see the product technical sheet).

Finishes

At product dry and after a period of at least 24 hours from the last application, at a temperature of about 23 ° C, perform a light sanding.

Recommended disks:

- Abrasive mesh disc 60 gr
- Abrasive disk 80 gr

(Make sure the disks used do not stain or colour)

Carefully remove the dust from processing and apply in a single layer the intermediate finish, transparent, filler "K GEL" (see the technical sheet).

Once it has dried for at least 12 hours after application, proceed to apply several coats of the provided protective transparent finishing coating, "K FINISH" or alternatively K FINISH MONO (according to the relevant technical data sheet).

After 24 hours, finish the work by applying "K WAX" opaque or semi glossy effect (see the technical sheet). Do not use 'K WAX' in showers or bathtubs.

Technical data

PARAMETER	VALUE
Product constituent	monocomponent thixotropic paste
Color	NEUTRAL (to be coloured with appropriate colouring pastes)
Specific weight UNI EN ISO 2811-1	1,71 ± 0,05 g/cm ³
Application temperature	+5°C + 30°C
Yield	1.7 kg / m ² for mm of dry film thickness
Hardening at 25% 60% Humidity	touch dry 2 hours
	overlap 3 hours
	total hardening approx. 72 hours
Average consumption on smooth surface	min. 1,6 kg /m ² (2 coats)
Average consumption with FV 70 Net	min. 1,3 / 1,5 kg/m ² (1 coat)
Average consumption with FV 160	min. 1,4 / 1,7 kg/m ² (1 coat)
Storage	12 months at a temperature between + 5° and + 30 ° C protected from direct sunlight

Product testing EN 13501	
Fire reaction	Classe B _{FL}

Compression strength		
Step	Load (kpa)	Vertical (mm)
1	1000	0,167
2	2000	0,235
3	3000	0,288
4	4000	0,342
5	5000	0,385
6	6000	0,427
7	7000	0,481
8	8000	0,602
9	7000	0,595
10	6000	0,580
11	5000	0,559
12	4000	0,534
13	3000	0,509
14	2000	0,481
15	1000	0,442
16	0	0,377

Packaging

1 - 3 - 5 - 10 - 20 Kg



Warning

The above mentioned information is based on the best knowledge of our product.

The application modalities can be various, having no control over their implementation; NAICI assumes no responsibility for the wrong use of the product.

Do not add water or other substances, the product comes ready for use.

Respect the indicated application temperatures.

Keep the package in place vertical, pay the utmost attention to don't turn it upside down.

Any product left must be covered with a plastic sheet to avoid hardening before closing the lid.

The consumptions showed are to be considered as an average indication to be a different surfaces (tile sizes and shapes, roughness of support, different sizes of the tile joints, etc.). For reference always consult the latest technical sheet (resinamaterica.com).

Specification

Aesthetic resin covering for interior walls and floors, such as homes, offices, shops, showrooms, hotels, etc., applied by trowel in two or more coats. Solvent free, micro reinforced resin paste called "MATERIKA" (NAICI), for an average consumption of approx. 1.6 kg / m², on a smooth surface. To be applied directly on tiles, or on cement surfaces after consolidation of the substrate with several coats of K PRIMER. Reinforcement net is necessary in case of damaged surfaces or on areas over 20 square meters. Use fibre net FV 70 on walls and a FV 160 on floors, to be inserted during the application of the first coat. Intermediate finishing coat, by application in a single coat of transparent filler K GEL. MATERIKA must be finished with three coats of a water-based transparent polyurethane coating called K FINISH, or K FINISH MONO with two coats. And finish with two or three coats of wax called K WAX. (See the Technical sheet).

