

MATERIA

One component water-based resin for floors and walls

Product's Characteristics

MATERIA is a water based one component thickness coating made of synthetic modified copolymers, for the decoration of floors and walls with a continuous effect. Is available on a wide selection of colours and effects and allows to obtain a complete personalization of own rooms.

Appearance

The surface will become a unique matter, overtaking rules and customs on an elegant resolution of style and technique to decorate in innovative ways. According to the kind of application, MATERIA can be applied with trowel effects, plain colour or materic look like cement or marble effect; between the trowel effects You can choose the version LEVIGATO (first coat with QUARZO and second without) or the structured version STRUTTURATO (both the coats with the addition of QUARZO MEDIO)

The final look of the resin is provided by the application of the two components water-based clear topcoat TOPSKIN available on the versions LUCIDO (bright), SATINATO (glossy) or OPACO (matt)

Possible Uses

MATERIA is ideal for indoor surfaces, horizontal and vertical, and can be applied on every kind of floor made of concrete, ceramic, or on other resin floors, or also on walls made of plaster, plasterboard, civil or on wooden and metal supports, provided that they've been treated with specific primer and prepared according to the application specification shown in this technical data sheet.

Support's Preparation

For a correct application of the cycles advised in this technical data sheet, ambient and surface temperature hasn't to be lower than 10 °C nor higher than 35 °C. Before cycle MATERIA's application it's advised to measure, with an appropriate HYGROMETER, the raising humidity of the surface, that has to be lower than 4%. In presence of a raising humidity higher than the expected one, a vapour barrier is necessary, following the specific preparation cycle for DAMP surfaces shown in this technical data sheet.

CONCRETE FLOORS

On concrete surfaces (screed), after an appropriate cleaning and removal of dust, remainder and roughness, apply by a paint roller an hand of primer QUIK 3 diluted at about 20% with water; if needed, at complete drying apply a second coat by roller of QUIK 3 diluted at about 10% with water and with the insertion of the fibreglass net RETE FP. At complete drying, apply by inox trowel the fibred basecoat MONOSTRATO FB.

CERAMIC TILED WALLS or FLOORS

On ceramic tiles you have to do an appropriate polishing or peening and clean carefully the surface removing dust and possible wax remainder. Apply one hand by roller of QUIK 3 and, at complete drying, fill up the joints between the tiles using specific RASAFUGHE; at complete drying, apply by inox trowel the fibred basecoat MONOSTRATO FB.

NB: If the insertion of RETE FP is needed, at RASAFUGHE's complete drying apply another coat by roller of primer QUIK 3 with the insertion of the net

PLASTER or PAINTED VERTICAL SURFACES

The surface has to be clean, completely dry and flawless. On old or previously painted supports you have to remove possible areas not well anchored and level the defects by scraping, filling or polishing processes. Prepare the support applying an hand of QUIK 3 diluted at about 20% with water. Over too rough surfaces or with gaps, apply MONOSTRATO FB.

PLASTERBOARD VERTICAL SURFACES

The surface has to be clean, completely dry and flawless. To reduce and standardize the absorption apply a specific acrylic fixative water-based product for walls or one coat of PRIMER 3PL TRASPARENTE diluted at about 20% with water; at complete drying, apply an hand of QUIK 3 diluted at about 20% with water.

MDF o SIMILAR WOODEN SURFACES

After proper sanding and cleaning, apply one coat by roller of primer QUIK 3 diluted at about 20% with water; at complete drying (approximately 3-6 hours) apply directly MATERIA by trowel..

DAMP SURFACES

On damp surfaces (raising H.R. more than 4%), after a preparation that includes cleaning, dust removing and the clearing of remainder and roughness, apply specific PRIMER 4UM as described in its own technical data sheet.

MATERIA's Product Preparation

MATERIA is a ready to use one component product.

- *Hardening*: one component product
- *Dilution*: not needed; requested only for two-colours effect.

You have to add QUARZO MEDIO at 10-15% into the first coat of MATERIA both for horizontal or vertical application; the addition of QUARZO MEDIO into the second coat is recommended for floors application and for the achievement of the STRUTTURATO effect.

Is also advisable the use of PRIMER 3PL TRASPARENTE, acrylic middle-coat, to apply between the coats of MATERIA to reduce the absorption and ease the application of the second coat over wide surfaces; the use of PRIMER 3PL TRASPARENTE is also recommended if the applicators works alone or during summer and hot periods.

Generic Application Method of MATERIA

MATERIA is coloured with tinting systems and applied with a stainless steel trowel. On floors or on horizontal surfaces that can be walked on, it is essential to not leave thicknesses (zero thickness application).

After specific preparation of the base, apply 2 coats of resin MATERIA with a trowel: You have always to add into the 1st coat about 10-15% of QUARZO MEDIO while the 2nd can be applied as it is (LEVIGATO effect) or with the addition of QUARZO MEDIO (STRUTTURATO effect); sand both coats of MATERIA with 150 or 240 grit paper (only for 2nd coat with LEVIGATO effect). Subsequently, check for any imperfections resulting from joints and, if necessary, go over by sanding and smoothing the effect.

Once the last coat of MATERIA is completely dry and after adequate sanding, proceed with the application in 2 coats of the two-component water-based clear topcoat TOPSKIN or the solvent-based topcoats POLYLUX/POLYSAT/POLYZERO (after impregnation with specific PRIMER 3PL TRASPARENTE or RASAGEL); for the treatment of bathrooms and shower stalls it is advisable to apply specific RASAGEL with a plastic trowel before the topcoat.

Colours

The finishing MATERIA is available on standard colours with the possibility of further personalization. The colours are obtained using the SISTEMA TINTOMETRICO ELEKTA, adding the colorant pastes to the neutral base MATERIA, according to the quantities estimated in the colours' form.

Application and Storage Conditions

- *Application temperature:* between +15°C and +40°C
- *Practice temperature:* from -20°C to +70°C
- *Storage temperature:* between +5°C and +30°C
- *Tools' cleaning:* with warm water

Technical Features

TECHNICAL DATA	METHOD	UNIT of MEASUREMENT	VALUE
Specific weight at 20°C	UNI EN ISO 2811	Kg/L	1,65±0,05
Dry remainder	UNI EN ISO 3251	% (p/p) % (v/v)	81±1 68±1
Brookfield viscosity at 20°C	ASTM D 2198	Cps	135.000±20.000
Shore A hardness	UNI EN ISO 868	Un.	Average value: 60 Highest value: 80
Mixing ratio	-	-	One component product
Dilution	-	-	Not requested
Rough covering		Kg/m ²	About 0,8 kg/m ² (LEVIGATO) About 0,9 kg/m ² (STRUTTURATO) About 1,0 – 1,5 kg/m ² (MATERIC EFFECT FOR WALLS)
Thickness		μ	About 0,300-500 (LEVIGATO)

Reaction Time (T=20°C - H.R. 50%)

- *Touch dry:* about 2 hours
- *Over-application time:* about 3-4 h with MATERIA; 3-4 h with one component water-based topcoat; 24 h with two components water-based topcoat; at least 24-36 h with solvent-based topcoat
- *Pedestrian traffic opening time:* 12 hours
- *Heavy traffic opening time:* 36 hours
- *Surface's complete hardening:* 7 days

Packaging

- 1 kg
- 5 kg
- 20 kg

FEAR THE FROST. DO NOT STORE BELOW + 10 ° C.

If the product freezes it will be irreversibly damaged.

Before using ELEKTA RESINE's products it's advisable to participate to the CORSO DEL RESINATORE or to contact the ELEKTA LAB assistance service.

For further information contact the technical office Gruppo GANI at the number +39.031.905163.

The information contained in this technical card are based on the common experience in the sector, without specific implicit or explicit guarantee.

The application and the use of our products take place outside our control possibilities and so those fall down under the exclusive responsibility of the user.

ELEKTA is a division of:

GRUPPO GANI S.r.l. - Via Vivaldi, 4 22071 Cadorago (CO) Tel: (+39) 031 905163
www.elektaresine.it - gruppogani@gruppogani.com