



MATERIA

Water-based epoxy resin, for the decoration of floors and walls with a “limitless effect”.

General Features

MATERIA is a coatings, based on epoxy resins, for the decoration of floors and walls that gives to the surface a “limitless” effect. The surfaces become as one, breaking rules and habits in a sophisticated solution of style and technique to create innovative and seductive decorations. MATERIA is available in a wide selection of colours and effects. It allows a total customization of the environments to celebrate the imagination and create details of high prestige and elegance in a contemporary and high tech style.

With the indications contained in this technical data sheet, the surfaces treated with MATERIA, are resistant to heavy pedestrian and patches of water and oil.

Appearance

Depending on the application technique, MATERIA is available in 5 different versions:

- MATERIA MONOKROMA: mono-chromatic spatulated effect
- MATERIA POLIKROMA: poly-chromatic spatulated effect
- MATERIA OXYDA: oxidized effect
- MATERIA LUMINA: crystallized effect
- MATERIA METALLIKA: metallized effect

All the colours of MATERIA are available in two different shades: satinata (30 gloss) and lux (80 gloss), depending on the transparent.

Recommended Use

MATERIA is ideal for interior floors or walls, and may be applied to all kinds of floors or walls, cement-based, or with tiles, plaster, plasterboard, and two-coat plaster, as well as wood and metal panel as long as they are treated with appropriate primers as outlined in the application specifications in this technical data sheet.

Surface Preparation

For a correct application of cycles recommended in this technical sheet, the room temperature, and surface, must not be below 10 °C because, at low temperatures, could be extended, even considerably, the reaction times of products and anomalies may arise on the final result.

Before applying the cycle is recommended to measure the humidity of the surface, by using the appropriate Hygrometer. The Humidity must be less than 4-5%. In the presence of rising humidity, higher than allowed, you must provide proper vapor barrier, using the specific cycle of preparation for wet surfaces, as indicated in this data sheet.

CONCRETE FLOORS

On concrete floors, after an appropriate preparation for cleaning and removing dust and debris, apply by roller, a coat of PRIMER 2CS (technical data sheet n° R 71.11).

After at least 12 hours (T = 20 °, RH = 60%) apply, with a stainless steel spatula or by roller, the basecoat STRUKTURA Q3 (technical data sheet n° R74.11), previously prepared and mixed with quartz (size 0.1 to 0.3mm). When applying STRUKTURA Q3, further dispersing the surface again using the quartz iron. When set, after at least 12 hours, clean the surface removing the quartz in excess and sand the surface by sander or floor machine.

Only if necessary, and in the presence of substrates in very poor condition with cracks or imperfections, apply after the application of PRIMER 2CS, a coat of STRUKTURA Q3 (without quartz) incorporating the appropriate *fibreglass net* for screed reinforcement.

Concrete surfaces of new construction must have reached a maturity of at least 28 days.

CERAMIC TILES FLOORS

On ceramic tiles, after an appropriate preparation, for sanding or blasting clean the surface by removing dust and debris, apply by roller a coat of PRIMER 3PL (Technical Data Sheet n° R72.11).

After at least 12 hours (T = 20 °, RH = 60%), grout the joints using the product STRUKTURA Q3 (Technical Data Sheet n° R74.11) loaded with quartz to obtain a paste. The fineness of the quartz must be identified case by case depending on the width and depth of the joints.

When it is completely dry, apply by stainless steel spatula or by roller, a coat of STRUKTURA Q3, previously mixed, and sprinkle the surface with medium quartz (size 0.1 to 0.3mm).

After at least 12 hours, clean the surface, removing the quartz in excess and sand the floor by a sander or a specific floor machine.

Only if necessary, and in the presence of tiles in very poor condition with cracks or imperfections, apply after the application of PRIMER 3PL, a coat of STRUKTURA Q3 (without quartz) incorporating the appropriate *fibreglass net*.

VERTICAL SURFACES

The surface must be smooth, dry, and completely unimpaired. Remove any imperfections from worn or previously painted surfaces by scraping or brushing.

Prepare the substrate by applying a coat of basecoat STRUKTURA Q3 (Technical Data Sheet n° R74.11), previously prepared and sprinkle on the wall the quartz powder mixed with water at 5-10%.

Wood surfaces, metal or other materials must be treated with appropriate primer before applying the cycle of MATERIA.

WET SURFACES

On wet surfaces (RH higher than 4-5%), after appropriate preparation for cleaning and removing dust and debris or asperities, apply by roller one coat of PRIMER 4UM (data sheet n° R 73.11), previously prepared mixing the Part A, Part B and Part C and diluted with 10% of water.

After at least 12 hours (T = 20 °, RH = 60%), using stainless steel spatula to apply a second coat of primer 4UM, previously prepared by mixing the Part A, Part B and Part C, and diluted with water to 5%. To obtain an effective barrier to moisture, the product must always be applied in at least two or three coats, checking the perfect continuity of the coats and the absence of holes or micropores and taking care not to exceed a thickness of 1.5 mm per coat.

Only if necessary, and in the presence of tiles in very poor condition with cracks or imperfections, apply a coat of PRIMER 4UM incorporating the appropriate *fibreglass net*.

Application Techniques

MATERIA MONOKROMA

After about 10-12 hours from the preparation of the surface with the basecoat STRUKTURA Q3, apply the first coat of MATERIA, in the color you want, using the stainless steel spatula, taking care to apply the product in a uniform and homogeneous way. After at least 4 hours (T = 20 °, RH = 60%), sanding the surface using a floor machine or a sander to remove any rough edges and apply a second coat of MATERIA, in the same color, with the stainless steel spatula, distributing the product in the opposite direction of the first coat, to create the final decoration.

After at least 24 hours (T = 20 °, RH = 60%), sand the surface with the floor machine or a sander, to remove any irregularities caused by the trowel. Apply a first coat, by roller, of the polyurethane satin transparent AQUASAT 30 (Technical Data Sheet n° R 75.11) or of the polyurethane polished transparent AQUALUX 80 (Technical Data Sheet n° R 76.11). After at least 8 hours (T = 20 °, RH = 60%), but not later than 48 hours, apply a second coat of transparent, always by roller. If the application of the second coat runs over the 48 hours, the surface must be sanded before applying the second coat.

MATERIA POLIKROMA

MATERIA POLIKROMA provides for the application of two coats of MATERIA, by varying the color between the first and second coat in order to increase the contrast of colors in the final result.

After about 10-12 hours from the preparation of the surface with the basecoat STRUKTURA Q3, apply the first coat of MATERIA, in the color you want, using the stainless steel spatula, taking care to apply the product in a uniform and homogeneous way. After at least 4 hours (T = 20 °, RH = 60%), sanding the surface using a floor machine or a sander to remove any rough edges and apply a second coat of MATERIA, in a different color, with the stainless steel spatula, distributing the product in the opposite direction of the first coat, to create the final decoration.

After at least 24 hours (T = 20 °, RH = 60%), sand the surface with the floor machine or a sander, to remove any irregularities caused by the trowel. Apply a first coat, by roller, of the polyurethane satin transparent AQUASAT 30 (Technical Data Sheet n° R 75.11) or of the polyurethane polished transparent AQUALUX 80 (Technical Data Sheet n° R 76.11). After at least 8 hours (T = 20 °, RH = 60%), but not later than 48 hours, apply a second coat of transparent, always by roller. If the application of the second coat runs over the 48 hours, the surface must be sanded before applying the second coat.

MATERIA OXYDA

After about 10-12 hours from the preparation of the surface with the basecoat STRUKTURA Q3, apply the first coat of MATERIA, in the color you want, using the stainless steel spatula, taking care to apply the product in a uniform and homogeneous way. After at least 4 hours (T = 20 °, RH = 60%), sanding the surface using a floor machine or a sander to remove any rough edges and apply a second coat of MATERIA, in the same color, with the stainless steel spatula, distributing the product in the opposite direction of the first coat, to create the final decoration.

During the application of the second coat, and until the surface still wet, apply a small amount of Elekta FUSION in the desired color, only in some places, located at a distance of 15-20 cm, and trowel the surface by integrating the product to MATERIA in order to create the particular oxidized effect.

After at least 24 hours (T = 20 °, RH = 60%), sand the surface with the floor machine or a sander, to remove any irregularities caused by the trowel. Apply a first coat, by roller, of the polyurethane satin transparent AQUASAT 30 (Technical Data Sheet n° R 75.11) or of the polyurethane polished transparent AQUALUX 80 (Technical Data Sheet n° R 76.11). After at least 8 hours (T = 20 °, RH = 60%), but not later than 48 hours, apply a second coat of transparent, always by roller. If the application of the second coat runs over the 48 hours, the surface must be sanded before applying the second coat.

MATERIA LUMINA

To get the crystallized effect typical of MATERIA LUMINA, add in MATERIA, already colored, the additive SILVER1 (Technical Data Sheet n° R 81.11) at 3%.

After about 10-12 hours from the preparation of the surface with the basecoat STRUKTURA Q3, apply the first coat of MATERIA, LUMINA in the color you want, using the stainless steel spatula, taking care to apply the product in a uniform and homogeneous way. After at least 4 hours (T = 20 °, RH = 60%), sanding the surface using a floor machine or a sander to remove any rough edges and apply a second coat of MATERIA LUMINA, in the same color, with the stainless steel spatula, distributing the product in the opposite direction of the first coat, to create the final decoration.

After at least 24 hours (T = 20 °, RH = 60%), sand the surface with the floor machine or a sander, to remove any irregularities caused by the trowel. Apply a first coat, by roller, of the polyurethane satin transparent AQUASAT 30 (Technical Data Sheet n° R 75.11) or of the polyurethane polished transparent AQUALUX 80 (Technical Data Sheet n° R 76.11). After at least 8 hours (T = 20 °, RH = 60%), but not later than 48 hours, apply a second coat of transparent, always by roller. If the application of the second coat runs over the 48 hours, the surface must be sanded before applying the second coat.

MATERIA METALLIKA

To get the metallized effect typical of MATERIA METALLIKA, add in MATERIA, already colored, the additive METALLO 3G (Technical Data Sheet n° R 82.11) at 10%.

After about 10-12 hours from the preparation of the surface with the basecoat STRUKTURA Q3, apply the first coat of MATERIA METALLIKA, in the color you want, using the stainless steel spatula, taking care to apply the product in a uniform and homogeneous way. After at least 4 hours (T = 20 °, RH = 60%), sanding the surface using a floor machine or a sander to remove any rough edges and apply a second coat of MATERIA METALLIKA, in the same color, with the stainless steel spatula, distributing the product in the opposite direction of the first coat, to create the final decoration.

After at least 24 hours (T = 20 °, RH = 60%), sand the surface with the floor machine or a sander, to remove any irregularities caused by the trowel. Apply a first coat, by roller, of the polyurethane satin transparent AQUASAT 30 (Technical Data Sheet n° R 75.11) or of the polyurethane polished transparent AQUALUX 80 (Technical Data Sheet n° R 76.11). After at least 8 hours (T = 20 °, RH = 60%), but not later than 48 hours, apply a second coat of transparent, always by roller. If the application of the second coat runs over the 48 hours, the surface must be sanded before applying the second coat.

Theoretical Coverage of the standard application cycle

- 1) *PRIMER 2CS or PRIMER 3PL*: about 4-6 sqm/kg (1 coat)
- 2) *STRUKTURA Q3 (with quartz)*: about 2-4 sqm/kg, depending on the conditions of the surface
- 3) *MATERIA*: about 0,8-1 sqm/kg (2 coats)
- 4) *AQUASAT 30 (satin) or AQUALUX 80 (polished)*: about 6-8 sqm/kg (2 coats)

For further information please take a look to the Technical Data Sheet of each component.

Preparation of the product MATERIA

- *Thinning*: the product is ready to use and therefore requires no thinning.
- *Mixing*: stir thoroughly with a mechanical device before use.
- *Clean up*: with warm water, immediately after used, or with solvents.

Application conditions of the product MATERIA

- *Temperature for application:* between +5°C and +40°C.
- *Dry-to-touch and sand time:* about 4-6 hours (T=20°C and 75% RH)
- *Time before the application of the finishing:* about 24 hours (T=20°C and 75% RH)

Technical Features

- *Packaging:* kg 5 and kg 20
- *Unit Weight:* 1 g/ml (+/- 3%)
- *VOC content:* 45 g/l
- *Storage Temperature:* compresa tra +5°C e +36°C, do not freeze.

Colors

MATERIA is available in a range of 36 colors which can be further increased with customizations.

More colors are yielded by adding colors to the MATERIA base, as per the quantities required in the color card, of the ELEKTA TINTING SYSTEM.

Specifications

Application of the epoxy water-based coating with a spatulated effect Elekta MATERIA (insert color code), produced by GRUPPO GANI Srl located in Como (Italy). The surface is treated with specific primer and prepared with the basecoat STRUKTURA Q3 by Elekta, enriched with quartz. The finish Elekta MATERIA is applied by stainless steel trowel, in two coats and must be protected with the specific satin protective transparent AQUASAT 30 Elekta (or AQUALUX 80 when polished), applied in two coats by roller.

Data Sheet Reference N° R70.11 downloadable at www.elektapainting.com.

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