

MATERIA 012

One-component water-based system for the realization of floors and walls

System's characteristics

The system MATERIA 012, in addition to primers and transparent topcoats, is made up of 3 one-component paste products based on resins in aqueous emulsion and selected mineral fillers; thanks to the particular and innovative formulations of the products, MATERIA 012 allows to obtain a decorative finish with a continuous effect on floors and internal walls with excellent mechanical resistance, excellent resistance to compression, customization of the colours and a trowelled appearance in a solid colour, glossy, satin or matt (depending on the chosen transparent topcoat).

Possible Uses

MATERIA 012 is used to create decorative low thickness coatings (about 2-3 mm max) over floor and walls in residential use (e.g. kitchens, living rooms, bedrooms, bathrooms, ...) and commercial use like shops, boutiques, offices, restaurants, showrooms,

Support's Preparation

For a correct application of system MATERIA 012, the ambient and surface temperature must not be below 10 ° C, since, in the presence of low temperatures, the reaction times of the products could be prolonged, even considerably, and could occur anomalies on the final result.

The surfaces to be treated must be sound, compact and free from friable parts, non-adherent layers or pollution of various kinds such as oils, greases, waxes, release agents, paints, enamels, etc.

Note for HELICOPTERED CONCRETE, SIMILAR or TREATED WITH FINISHES / ADDITIVES of different nature: before proceeding with the drafting of the cycle, check in advance the absorption of the surface and, if the absorption is not sufficient, proceed with preparations such as milling or shot peening to favour the penetration of the product.

Products' preparation and application cycle over concrete floorings

The system MATERIA 012 consists in 3 one-component paste products that have to be diluted with water and homogenised before the use:

- *Hardening* MATERIA ZERO: One component product
 MATERIA UNO: One component product
 MATERIA DUE: One component product
- *Dilution:* MATERIA ZERO: Dilute at about 2-3% with water
 MATERIA UNO: Dilute at about 2-3% with water
 MATERIA DUE: Dilute at about 2-3% with water

STANDARD application cycle over different surfaces

Below main standard cycle over:

- Floors and Walls made of NARROW/MEDIUM FLIGHT TILES healthy and well glued
- Floors and Walls over MIXED SUPPORTS (e.g. TILES WITH CONCRETE AREAS, ...)
- Floors made of MEDIUM/THIN GRAIN CONCRETE health, compact and solid
- Walls made of THIN PLASTER health, solid and compact or STUCCOED PLASTERBOARD
- Walls made of RAW/BIG GRAIN PLASTER health, compact and solid

Floors and Walls made of NARROW/MEDIUM FLIGHT TILES healthy and well glued

<u>SUPPORT'S PREPARATION</u>	Adequate sanding if necessary to eliminate any raised edges and complete cleaning and washing of the surface with ETI-ALC or specific wax removers, taking care to remove any traces of wax or other residues.	
<u>QUIK 3</u>	Apply over the entire surface one coat by roller of primer QUIK 3 diluted at about 10% with water laying down proper RETE R90	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 150 g/sqm
<u>MATERIA ZERO</u>	At complete drying, apply over the entire surface one coat by trowel of MATERIA ZERO diluted at about 2-3% with water taking care to completely uniform the surface. NB: You'll be able to use a 50 cm trowel to apply the product	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 1500-2000 g/sqm
<u>MATERIA UNO</u>	At complete drying, sand with abrasive paper P40 and apply over the entire surface one coat by trowel of MATERIA UNO on the chosen colours diluted at about 2-3% with water taking care to completely uniform the surface. NB: You'll be able to use a 50 cm trowel to apply the product	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 800-1000 g/sqm
<u>MATERIA DUE</u>	At complete drying, sand with abrasive paper P100 and apply over the entire surface one coat by trowel of MATERIA DUE on the chosen colours diluted at about 2-3% with water.	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 500-600 g/sqm
<u>TOPSKIN</u>	At complete drying, sand with abrasive paper P100 and apply 2 coats by roller of the two components water-based transparent topcoat TOPSKIN hardened at 20% by weight with CATALIZZATORE UNIKO and diluted at about 10% with water.	
	<u>Hardening</u> TOPSKIN 1 Kg CATALIZZATORE UNIKO 200 g	<u>Rough consumption</u> About 80-100 g/sqm (2 coats)

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Floors and Walls over MIXED SUPPORTS (e.g. TILES WITH CONCRETE AREAS, ...)

<u>SUPPORT's PREPARATION</u>	Adequate sanding if necessary to eliminate any raised edges and complete cleaning and washing of the tiles with ETI-ALC or specific wax removers, taking care to remove any traces of wax or other residues.	
<u>QUIK 3</u>	Apply only over concrete areas one coat by roller of primer QUIK 3 diluted at about 20% with water to standardize absorption. At complete drying, apply over the entire surface one coat by roller of primer QUIK 3 diluted at about 10% with water laying down proper RETE R90	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 150 g/sqm each coat
<u>MATERIA ZERO</u>	At complete drying, apply over the entire surface one coat by trowel of MATERIA ZERO diluted at about 2-3% with water taking care to completely uniform the surface. NB: You'll be able to use a 50 cm trowel to apply the product	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 1500-2000 g/sqm
<u>MATERIA UNO</u>	At complete drying, sand with abrasive paper P40 and apply over the entire surface one coat by trowel of MATERIA UNO on the chosen colours diluted at about 2-3% with water taking care to completely uniform the surface. NB: You'll be able to use a 50 cm trowel to apply the product	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 800-1000 g/sqm
<u>MATERIA DUE</u>	At complete drying, sand with abrasive paper P100 and apply over the entire surface one coat by trowel of MATERIA DUE on the chosen colours diluted at about 2-3% with water.	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 500-600 g/sqm
<u>TOPSKIN</u>	At complete drying, sand with abrasive paper P100 and apply 2 coats by roller of the two components water-based transparent topcoat TOPSKIN hardened at 20% by weight with CATALIZZATORE UNIKO and diluted at about 10% with water.	
	<u>Hardening</u> TOPSKIN 1 Kg CATALIZZATORE UNIKO 200 g	<u>Rough consumption</u> About 80-100 g/sqm (2 coats)

Floors made of MEDIUM/THIN GRAIN CONCRETE health, compact and solid

<u>SUPPORT's PREPARATION</u>	Adequate sanding of the surface and complete cleaning taking care to remove any traces or other residues that could affect products' adhesion	
<u>QUIK 3</u>	Apply over the entire surface one coat by roller of primer QUIK 3 diluted at about 20% with water to standardize absorption. At complete drying, apply over the entire surface one coat by roller of primer QUIK 3 diluted at about 10% with water laying down proper RETE R90	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 250 g/sqm (2 coats)
<u>MATERIA ZERO</u>	At complete drying, apply over the entire surface one coat by trowel of MATERIA ZERO diluted at about 2-3% with water taking care to completely uniform the surface. NB: You'll be able to use a 50 cm trowel to apply the product	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 1500-2000 g/sqm
<u>MATERIA UNO</u>	At complete drying, sand with abrasive paper P40 and apply over the entire surface one coat by trowel of MATERIA UNO on the chosen colours diluted at about 2-3% with water taking care to completely uniform the surface. NB: You'll be able to use a 50 cm trowel to apply the product	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 800-1000 g/sqm
<u>MATERIA DUE</u>	At complete drying, sand with abrasive paper P100 and apply over the entire surface one coat by trowel of MATERIA DUE on the chosen colours diluted at about 2-3% with water.	
	<u>Hardening</u> ONE COMPONENT product	<u>Rough consumption</u> About 500-600 g/sqm
<u>TOPSKIN</u>	At complete drying, sand with abrasive paper P100 and apply 2 coats by roller of the two components water-based transparent topcoat TOPSKIN hardened at 20% by weight with CATALIZZATORE UNIKO and diluted at about 10% with water.	
	<u>Hardening</u> TOPSKIN 1 Kg CATALIZZATORE UNIKO 200 g	<u>Rough consumption</u> About 80-100 g/sqm (2 coats)

Walls made of THIN PLASTER health, solid and compact or STUCCOED PLASTERBOARD

<u>SUPPORT's PREPARATION</u>	<p>Adequate sanding of the surface and complete cleaning taking care to remove any traces or other residues that could affect products' adhesion</p> <p>For plasterboard and gypsum-based plaster: Preventively apply a fixative acrylic soaking primer for walls to reduce and standardize absorption.</p>	
<u>QUIK 3</u>	<p>Apply over the entire surface one coat by roller of primer QUIK 3 diluted at about 20% with water to standardize absorption.</p>	
	<p><u>Hardening</u> ONE COMPONENT product</p>	<p><u>Rough consumption</u> About 150 g/sqm</p>
<u>MATERIA UNO</u>	<p>Apply over the entire surface one coat by trowel of MATERIA UNO on the chosen colours diluted at about 2-3% with water taking care to completely uniform the surface.</p> <p>NB: You'll be able to use a 50 cm trowel to apply the product</p>	
	<p><u>Hardening</u> ONE COMPONENT product</p>	<p><u>Rough consumption</u> About 800-1000 g/sqm</p>
<u>MATERIA DUE</u>	<p>At complete drying, sand with abrasive paper P100 and apply over the entire surface one coat by trowel of MATERIA DUE on the chosen colours diluted at about 2-3% with water.</p>	
	<p><u>Hardening</u> ONE COMPONENT product</p>	<p><u>Rough consumption</u> About 500-600 g/sqm</p>
<u>TOPSKIN</u>	<p>At complete drying, sand with abrasive paper P100 and apply 2 coats by roller of the two components water-based transparent topcoat TOPSKIN hardened at 20% by weight with CATALIZZATORE UNIKO and diluted at about 10% with water.</p>	
	<p><u>Hardening</u></p> <p>TOPSKIN 1 Kg CATALIZZATORE UNIKO 200 g</p>	<p><u>Rough consumption</u> About 80-100 g/sqm (2 coats)</p>

Walls made of RAW/BIG GRAIN PLASTER health, compact and solid

<u>SUPPORT's PREPARATION</u>	Adequate sanding of the surface and complete cleaning taking care to remove any traces or other residues that could affect products' adhesion	
<u>QUIK 3</u>	Apply over the entire surface one coat by roller of primer QUIK 3 diluted at about 20% with water to standardize absorption.	
	<i>Hardening</i> ONE COMPONENT product	<i>Rough consumption</i> About 150 g/sqm
<u>MATERIA ZERO</u>	At complete drying, apply over the entire surface one coat by trowel of MATERIA ZERO diluted at about 2-3% with water taking care to completely uniform the surface. NB: You'll be able to use a 50 cm trowel to apply the product	
	<i>Hardening</i> ONE COMPONENT product	<i>Rough consumption</i> About 1500-2000 g/sqm
<u>MATERIA UNO</u>	At complete drying, sand with abrasive paper P40 and apply over the entire surface one coat by trowel of MATERIA UNO on the chosen colours diluted at about 2-3% with water taking care to completely uniform the surface. NB: You'll be able to use a 50 cm trowel to apply the product	
	<i>Hardening</i> ONE COMPONENT product	<i>Rough consumption</i> About 800-1000 g/sqm
<u>MATERIA DUE</u>	At complete drying, sand with abrasive paper P100 and apply over the entire surface one coat by trowel of MATERIA DUE on the chosen colours diluted at about 2-3% with water.	
	<i>Hardening</i> ONE COMPONENT product	<i>Rough consumption</i> About 500-600 g/sqm
<u>TOPSKIN</u>	At complete drying, sand with abrasive paper P100 and apply 2 coats by roller of the two components water-based transparent topcoat TOPSKIN hardened at 20% by weight with CATALIZZATORE UNIKO and diluted at about 10% with water.	
	<i>Hardening</i> TOPSKIN 1 Kg CATALIZZATORE UNIKO 200 g	<i>Rough consumption</i> About 80-100 g/sqm (2 coats)

NB:

The consumptions shown in the previous tables are to be understood for already hardened products and net of any dilutions

The cycles previously reported are purely indicative: for this type of intervention it's advisable to request a personalized cycle from the ELEKTA LAB technical assistance service.

Depending on the actual conditions of the support, the processing cycles may undergo proper modifications.

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Colours

MATERIA ZERO:	grey colour (not colourable).
MATERIA UNO:	available NEUTRO or already coloured (folder colours MATERIA, PASTELLONE, RAL, NCS, ...).
MATERIA DUE:	available NEUTRO or already coloured (folder colours MATERIA, PASTELLONE, RAL, NCS, ...).

Application and Storage Conditions

- *Application temperature:* between +15°C and +30°C
- *Practice temperature:* between -10°C and +60°C
- *Storage temperature:* between +10°C and +35°C
- *Tools' cleaning:* with warm water

Technical Features

MATERIA ZERO		
TECHCNICAL FEATURE	UNIT of MEASUREMENT	VALUE
Specific weight at 20°C	Kg/L	1,85 ± 0,05 Kg/L
Dynamic viscosity	mPas	50.000 ± 10.000 mPas
VOC	g/L	10,52 g/L
Dilution	-	About 5% with water
Mixing ratio	-	ONE COMPONENT product
Rough consumption	g/sqm	About 1500-2000 g/sqm
Shelf life	-	12 months in original cans and well closed

MATERIA UNO		
TECHCNICAL FEATURE	UNIT of MEASUREMENT	VALUE
Specific weight at 20°C	Kg/L	1,85 ± 0,05 Kg/L
Dynamic viscosity	mPas	50.000 ± 10.000 mPas
VOC	g/L	10,52 g/L
Dilution	-	About 2-3% with water
Mixing ratio	-	ONE COMPONENT product
Rough consumption	g/sqm	About 800-100 G/sqm
Shelf life	-	12 months in original cans and well closed

MATERIA DUE		
TECHCNICAL FEATURE	UNIT of MEASUREMENT	VALUE
Specific weight at 20°C	Kg/L	1,80 ± 0,05 Kg/L
Dynamic viscosity	mPas	50.000 ± 10.000 mPas
VOC	g/L	10,52 g/L
Dilution	-	About 2-3% with water
Mixing ratio	-	ONE COMPONENT product
Rough consumption	g/sqm	About 500-600 g/sqm
Shelf life	-	12 months in original cans and well closed

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Reaction Times (T=20°C - U.R. 50%)

	MATERIA ZERO	MATERIA UNO	MATERIA DUE
Pot-Life	/	/	/
Touch dry	About 8-12 hours	About 6-8 hours	About 4-6 hours
Walkable	About 24 hours	About 8-12 hours	About 8-12 hours
Over-applicable	About 24 hours	About 8-12 hours	About 8-12 hours
TRANSPARENT topcoat	/	/	About 12-24 hours
Complete hardening	About 7-10 days		

Available Packaging

MATERIA ZERO

- Can 5 Kg
- Can 20 Kg

MATERIA UNO (NEUTRO or COLOURED)

- Can 1 Kg
- Can 5 Kg
- Can 20 Kg

MATERIA DUE (NEUTRO or COLOURED)

- Can 1 Kg
- Can 5 Kg
- Can 20 Kg

IT FEARS THE FREEZE. NOT STORE AT TEMPERATURE LOWER THAN +10°C.

If the product freezes it 'd be irreversibly damaged.

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.

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