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TECHNICAL DATA MARMURA

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Description:

MarmUra is the perfect fusion of the solidity of ceramic and the brilliance of crystals, a decorative effect that embodies strength, durability, and uncompromising elegance.

Ideal for walls and floors, both interior and exterior, this covering gives spaces a bold and sophisticated character, thanks to its surface rich in luminous reflections and details sculpted into the material.

MarmUra expresses power and prestige, transforming any space into a masterpiece of contemporary design, capable of standing the test of time with an imposing and refined style.

Areas of use and characteristics:

- MarmUra is a ready-to-use, single-component, ultra-thin ceramic paste with crystal microspheres, offering excellent performance in terms of yield, mechanical resistance, flexibility, and workability.
- Thanks to the absence of epoxy resins, MarmUra is completely non-yellowing and contains no cements or other hygroscopic components that could impair performance upon direct and prolonged contact with water.
- The MarmUra system eliminates the pot-life problem found in epoxy resins and microcements. Once the container is opened, any remaining product, if properly resealed, undiluted, and stored properly, can be reused for up to 24 months.
- MarmUra is resistant to mold, algae, and bacteria, and in particular, has an extraordinary ability to resist the spread of flames and the development of smoke. It is an environmentally sustainable and advanced product, containing no added *Formaldehyde or **APEO, and has a very low VOC content.
- MarmUra is composed of multiple products to meet the diverse needs of the market and to make the system technically advanced. The finishes are aesthetically natural, capable of giving a new look to residential, work, and commercial environments. It is possible to intervene non-invasively without demolition and reconstruction in less than 3 mm of thickness with the complete cycle. MarmUra is rated A+ according to the French ministerial decree for indoor air quality.

Main features:

- Realistic and natural appearance
- Seamless, seamless surface
- Highly resistant and durable
- Suitable for interior and exterior walls, furniture, and decorative panels

Preparation, coloring, and mixing:

- The MarmUra container contains 7 liters of product and 2.1 kg of Crystal.
1. Pour the MarmUra into a clean bucket and add approximately 5% drinking water, mixing thoroughly using a mechanical mixer.
 2. Add the crystals in small doses and continue mixing for approximately 3 minutes.
 3. The product is now ready for application.

Preparation and application for interior walls:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and seasoned surfaces.
1. Apply a single coat of Primer NK evenly over the entire surface to be treated using a short-haired roller and a brush.
 2. Let dry for 24 hours (+20°C).
 3. Apply a first coat of MarmUra over the entire surface to be decorated using a stainless steel trowel;
 4. Let the product dry for 12 hours (+20°C);
 5. Apply a second coat of MarmUra as done for the first;
 6. Let the product dry for 24 hours (+20°C);
 7. To achieve a soft-touch surface, sand the surface gently and without applying pressure using a random orbital sander with 150-grit sandpaper;

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8. Vacuum the surface thoroughly to remove dust.
9. Apply a generous coat of ProteKto EcoSilan using a short-haired Mohair roller;
10. Leave to dry for 24 hours (+20°C).

Preparation and application for interior and exterior furniture and doors:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and seasoned surfaces.
1. Apply a single coat of Primer NK evenly over the entire surface to be treated using a short-haired roller and a brush.
 2. Let dry for 24 hours (+20°C).
 3. Apply a first coat of MarmUra over the entire surface to be decorated using a stainless steel trowel;
 4. Let dry for 12 hours (+20°C);
 5. Apply a second coat of MarmUra as described above;
 6. Let dry for 24 hours (+20°C);
 7. To achieve a soft-touch surface, sand the surface gently and without applying pressure using a random orbital sander with 150-grit sandpaper;
 8. Vacuum the surface thoroughly to remove dust.
 9. Apply a first coat of Vetroliquido PRP using a short-haired roller (mohair) for approximately 1/2 square meter, then immediately smooth the product with a stainless steel trowel to eliminate any bubbles.
 10. Let the product dry for 12 hours (+20°C);
 11. Apply a second coat of Vetroliquido PRP as described for the first;
 12. Let the product dry for 24 hours (+20°C);
 13. Apply a third coat of Vetroliquido PRP as described for the second;
 14. Let the product dry for 48 hours (+20°C).

Preparation and application for floors, shower stalls, bathrooms, kitchen backsplashes, and interior and exterior surfaces:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and seasoned surfaces.
1. Lay out the 70/80 g/m² fiberglass mesh, taking care to position it so that it doesn't crease, overlapping the ends of the mesh by at least 10 cm;
 2. Apply a first coat of Primer Beton using a stainless steel trowel, evenly and evenly over the entire surface to be treated;
 3. Let the product dry for 24 hours (+20°C);
 4. Apply a second coat of Primer Beton as before;
 5. Let the product dry for 24 hours (+20°C);
 6. Apply a first coat of MarmUra over the entire surface to be decorated using a stainless steel trowel;
 7. Let the product dry for 12 hours (+20°C);
 8. Apply a second coat of MarmUra as before;
 9. Let the product dry for 24 hours (+20°C);
 10. To achieve a soft-touch surface, sand the surface gently and without applying pressure using a random orbital sander with 150-grit sandpaper.
 11. Vacuum the surface thoroughly to remove dust.
 12. Apply a first coat of Vetroliquido PRP using a short-haired (mohair) roller over approximately 1/2 square meter, then immediately smooth the product with a stainless steel trowel to eliminate any bubbles.
 13. Let the product dry for 12 hours (+20°C);
 14. Apply a second coat of Vetroliquido PRP as described for the first;
 15. Let the product dry for 24 hours (+20°C);
 16. Apply a third coat of Vetroliquido PRP as described for the second;
 17. Let the product dry for 48 hours (+20°C).

Warnings and recommendations:

- Store MarmUra in a dry, dry place, away from sunlight;
- Do not apply MarmUra to dusty surfaces;
- Do not apply MarmUra to wet surfaces;
- Do not apply MarmUra to frozen surfaces;

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- Do not apply MarmUra to still damp surfaces and restorations;
- Do not apply MarmUra in strong sunlight (outdoor application);
- Do not apply MarmUra in strong winds (outdoor application);
- Do not apply MarmUra in rain (outdoor application);
- Make sure the temperature does not drop below +10°C before applying MarmUra;
- Do not apply MarmUra where rising damp or seepage has been confirmed;
- Measure the humidity level at a depth of 4 cm using a carbide hygrometer to ensure it is less than 3%;
- Check the local weather forecast (outdoor application);
- Cover windows, doors, etc. well before applying MarmUra.

Performance Features:

- Tensile strength of MarmUra (EN 13892-2): 38 N/mm² at 28 days,
- Compressive strength of MarmUra (EN 13892-2): 38 N/mm² at 28 days;
- Flexural strength of MarmUra (EN 13892-2): 36 Nm at 28 days;
- Impact resistance of MarmUra (UNI EN ISO 6272-1): 0.500/m Nm/501;
- Resistance to permeability of MarmUra (UNI EN 1062-3): 0.0001 kg/m²*h^{0.5} at 5 days;
- Reaction to fire of MarmUra (EN 13501-1) CLASS 1 at 28 days;
- MarmUra adhesion strength to concrete (EN 13892-8): 6 N/mm² after 28 days;
- MarmUra castor test (EN 425): absolutely no defects;
- The minimum/maximum recommended thickness for the MarmUra application cycle is 3 mm.
- MarmUra consumption may vary depending on the consistency, porosity, and condition of the surface, as well as the application method.
- MarmUra performance tests were conducted in our laboratories (laboratory temperature +21°C - humidity 65%);
- MarmUra slip resistance: DIN 51097 method Class A $19^{\circ} \leq \alpha < 27^{\circ}$ - Non-slip (DIN 51130): R11 - Food production environments, catering kitchens, work environments with a high presence of water and mud, clinics, laboratories, laundries, hangars.

Technical data:

- Appearance: Paste;
- Viscosity (UNI EN ISO 3219): ~ 130,000 mPa*s;
- Specific weight (UNI EN ISO 2811-1): ~ 1.5 kg/Lt ±3%;
- pH: > 9.00;
- Color: White;
- Colors obtainable with toner: 32 shades;
- Dilution: 5/7% drinking water (Max 500 ml of drinking water for both layers);
- Coverage: 20 m² with two coats;
- Operating temperature: +10°C and +30°C;
- Touch dry: 3 hours at +20°C;
- Walkable dry: 48 hours at +20°C;
- Full hardening: ~7 days at +20°C;
- Overlaying furniture on the dry layer of VetroLiquido PRP: ~10 days at +20°C;
- Full curing: 28 days at +20°C;
- Thermal resistance after curing: -20°C to +50°C;
- Water and UV resistance after application of VetroLiquido PRP: ~10 days;
- Packaging: 7 L and 2.5 L;
- Shelf life: 24 months in unopened packaging, protected from UV rays and humidity;
- Classification by end use (UNI EN 1062.1 – 4.1): Decoration and Protection;
- Classification by binder type (UNI EN 1062.1-4.2): Acrylic Nanoresin;
- Classification by state (UNI EN 1062.1-4.3): Aqueous Dispersion;
- VOC classification: Complies with Legislative Decree No. 161 of 27/03/2006 (Implementation of Directive 2004/42/EC).

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The written and verbal technical and application instructions provided to buyers and installers are based on our experience and the current state of the art in theory and practice. They are not binding and do not imply any contractual obligation or secondary commitment arising from the purchase contract. They do not exempt the buyer from personally verifying the suitability of our products for the intended application, at their own risk. The processing cycles indicated above do not constitute any assumption of liability by Nikkolor Italia s.r.l., which is exempt from any liability for problems arising from incorrect installation.

RULES AND USEFUL TIPS

Introduction:

Let's start by saying that the success of a floor depends largely on the substrate, the correct application method, and the mixing and installation phases. However, proper cleaning and proper maintenance of the floor is the responsibility of those who live with seamless surfaces. The more it is cared for, the longer the floor will last.

Advantages of MarmUra flooring:

The floor is available in a wide variety of colors and textures, can be matte or satin, smooth or rough, and is highly resistant to wear, trampling, and impacts. Furthermore, it holds up well in humid environments, has good fireproof properties, thus preventing the spread of flames, is highly resistant to chemicals, the surface is hygienic because it has no joints, and, finally, it is easy to clean and maintain.

Disadvantages of MarmUra flooring:

The floor is very durable, but not as durable as a ceramic or stoneware floor. It can be repaired rather than replaced entirely if the damage affects a very small area, and this is also a good thing, but in any case, it must be applied by qualified professionals. It is not suitable for DIY.

Using the MarmUra floor:

In the first week after applying the complete cycle, it is very important not to clean the floor under any circumstances. Do not spill any liquid on the floor that could alter the color, lighten, or even bleach it. Therefore, avoid walking on the floor at all costs, as it has not yet reached its maximum hardness and chemical resistance.

Cleaning the MarmUra floor:

Start cleaning the floor by removing dust and dirt using a soft-bristled broom or a vacuum cleaner to gently sweep the surface. Be sure to cover the entire floor area, including hard-to-reach areas like corners. Mopping the floor without sweeping away dust and dirt can damage the surface layer over time, leaving it looking dirty even after thoroughly mopping.

Helpful tips for cleaning MarmUra floors:

Prepare a solution of warm water and neutral soap, following the manufacturer's instructions. Using a microfiber cloth, thoroughly clean the entire surface. Be sure not to overdo the detergent, as excessive amounts could leave residue on the floor. Neutral products are the best choice for interiors and home environments; they are simple, economical, and extremely effective.

Helpful tips for treating MarmUra floors:

1. Use a doormat outside the door.
2. Use non-absorbent mats under the sink and washbasin.
3. Use cotton or natural fiber mats; those made of rubber or synthetic fibers may release oily substances and stain the surface.
4. Place shock-absorbent felt pads under the legs of chairs, tables, desks, and furniture.
5. Use silicone rubber casters for office chairs.
6. Clean up any spilled liquids immediately; if left to settle, they could damage the floor's surface protection.
7. Take extreme care not to spill anything on the surface, including substances such as oils, perfumes, creams, grease, stucco, mortar, and paint, which could permanently damage the floor.
8. Do not leave damp cloths on the floor.

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9. Never use abrasive or aggressive products such as wire brushes, sandpaper, hydrochloric acid, acetone, or ammonia, as their corrosive properties will damage the floor.
10. Take extreme care when installing furniture (in any case, it is recommended to let the surface fully cure) and do not place objects on the floor. In fact, improperly curing the floor will result in unsightly stains, even after several days.
11. Do not drag any objects across the floor.
12. Walk on the surface only with clean shoes.
13. Avoid standing water and direct contact with humidity.
14. Knowledge of the substrates and their suitability for proper installation and product use is the responsibility of the person performing the work.
15. Proper treatment, maintenance, and cleaning of surfaces is the customer's responsibility.

However, since we cannot intervene directly, the company assumes no responsibility for the conditions of the construction sites, the execution of the work, or the proper treatment, maintenance, and post-installation cleaning of the floors, as these are beyond our control. For any information, please contact our technical support.