

## MARMURA

### TECHNICAL DATA MARMURA

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#### TECHNICAL FEATURES:

MARMURA is a single-component ceramic paste with crystal microspheres, ready to use with very low thickness, with great performance in terms of yield, mechanical strength, flexibility and processing. Thanks to the absence of epoxy resins, MARMURA is in total absence of yellowing, it does not contain cements or other hygroscopic components which, in direct and prolonged contact with water, can preclude performance.

With the MARMURA system the pot-life problem that we find in epoxy resins and microcements is eliminated, once the container is opened, the leftovers, if properly closed, undiluted and well preserved, can be reused for about twenty-four months. MARMURA is resistant to mold, algae and bacteria, and in particular an extraordinary ability to oppose the spread of flames and the development of fumes, it is an ecologically sustainable and advanced product, it does not contain \* added formaldehyde and \* APEO, with a very low VOC content.

MARMURA is a multilayer coating for the decoration of indoor and outdoor floors and walls, swimming pools, bathrooms, saunas and furniture. Designed to be able to respond to the multiple technical and aesthetic needs of modern architecture in the private or commercial setting. MARMURA is made up of several products to meet the multiple needs of the market and to make the system technically advanced, the finishes are aesthetically natural able to give a new look to residential, work and commercial environments.

It is possible to intervene in a non-invasive way without demolition and reconstruction in less than 3 mm thickness with the complete cycle and with less than 0.650 kg/m<sup>2</sup> of product. MARMURA is classified A+ according to the French ministerial decree for indoor air quality.

#### FIELDS OF USE:

- MARMURA was created to cover floors, walls and ceilings both indoors and outdoors of great prestige, intended for great design and for the renovation of public and private environments, shopping centres, shops, bars, villas, residences, swimming pools, balconies, terraces, bathrooms, shower cubicles, saunas, kitchens, furniture and furnishing accessories with the particularity of the total absence of joints, allows for continuous solutions to be obtained between the floor and the wall, all of this to satisfy the furnishing needs of modern and contemporary architecture.

#### PREPARATION AND APPLICATION OF THE NK PRIMER:

- Primer NK is ready to use, in some cases such as cementitious substrates the product can be diluted with drinking water equal to 5%, apply the product using a roller and brush and leave to dry for at least 12 hours. Once dry, proceed with the application of the Primer Beton.

#### PREPARATION AND APPLICATION OF THE PRIMER BETON:

- Pour approximately 6 liters of drinking water into a clean bucket and pour the Primer Beton in small doses using a mechanical stirrer at low speed until the mix is completely homogenised.
- Before proceeding with the application of the product, leave it to rest for at least five minutes and mix again; Spread the smoothing compound on the surfaces using a 3 mm toothed stainless steel trowel for approximately one square meter and immediately afterwards lightly crush the product so as to level the surface and eliminate the lines created by the toothed trowel. Leave to dry for at least 24 hours at +20°C.

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**WARNINGS:**

- Cement screed floors and coverings must be cured for at least 30 days,
- Floors and coverings with cracks, traces and cracks previously restored for the passage of water pipes, for heating etc., it is essential to spread the 70/80 g/m<sup>2</sup> glass fiber mesh over the entire surface before applying the Primer Beton. to be treated, apply a layer of Primer Beton and leave to dry for 24 hours. On uneven surfaces it is recommended to apply a second layer of Primer Beton so as to uniform and level the surface before applying MARMURA.

**PREPARATION OF THE MARMURA:**

- The MarmUra package consists of 7 liters of product and 2.1 kg of Crystal. Pour the product (MarmUra) into a clean bucket and add approximately 5% of drinking water, mix thoroughly using a mechanical mixer, pour in small dose the crystals (Crystal) and keep mixing for about five minutes, the product is now ready to be applied.

**MARMURA APPLICATION:**

- Apply a first layer of MARMURA using a stainless-steel trowel and taking care to give the surface the desired texture and leave the product to dry for 12h.
- Apply a second layer of MARMURA to perfect leveling and obtain the desired aesthetic effect and leave the product to dry for approximately 24 hours.
- It is essential in this phase to use a specific stainless-steel trowel that does not cause unpleasant greyish burns.
- If you want to obtain a perfectly smooth and soft to the touch surface, after the second layer of MARMURA has dried, sand the whole surface using a random orbital sander with 150 grit sandpaper and vacuum up perfectly all traces of dust and clean with a damp cloth so to perfectly dedust the surface.

**PREPARATION OF VETROLIQUIDO PRP:**

- VETROLIQUIDO PRP is ready for use and does not require dilution.

**APPLICATION OF VETROLIQUIDO PRP:**

- Internal and external floors and coverings treated in MarmUra, apply a first coat of VETROLIQUIDO PRP using a short-haired roller and immediately afterwards smooth the product with a stainless steel and/or plastic trowel, so as to eliminate any bubbles, after 12 hours at +20°C, proceed with the application of the second layer as in the previous step.
- Furniture, doors, kitchen tops and furnishing accessories treated in MarmUra, apply a first coat of VETROLIQUIDO PRP using a short-haired roller and immediately afterwards smooth the product with a stainless steel and/or plastic trowel, so as to eliminate any bubbles, after 12 hours at +20°C proceed with the application of the second layer as in the previous step.
- Swimming pools, tanks, fountains treated in MarmUra, apply a first layer of VETROLIQUIDO PRP using a short-haired roller and immediately afterwards smooth the product with a stainless steel and/or plastic trowel, so as to eliminate any bubbles, after 12 hours at +20°C proceed with the application of the second coat as done previously, 24 hours later at +20°C proceed with the application of the third coat as done for the second.

**WARNINGS AND RECOMMENDATIONS:**

- Avoid applying the product with relative air humidity above 80%);
- Do not apply on damp supports or where the presence of rising or infiltrating humidity has been ascertained;
- Measure with a carbide hygrometer at a depth of 4 cm to ensure that the humidity level is less than 3%.
- Cover fixtures, doors, etc. well;
- The floor will be suitable for pedestrian traffic only after two days from the last layer of protective finish applied, for frequent washing and the installation of furniture it will be necessary to wait at least five days from the last layer of protective finish applied.

**INSTALLATION FEATURES:**

- Product in paste and ready to use, max 5% water in the final layer to improve levelling

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- Mix the crystal spheres well in the product using an electric mixer before use;
- Operating temperature: +5°C and +35°C;
- Resistance to water and UV rays after the application of VetroLiquido PRP: ~2 days;
- Store in a cool, dry place away from the sun, +5°C and +30°C.;
- Do not apply in the presence of strong sun, strong wind or rain;

## PERFORMANCE CHARACTERISTICS:

- Tensile strength (EN 13892-2): 38 N/mm<sup>2</sup> in 28 days
- Compressive strength (EN 13892-2): 38 N/mm<sup>2</sup> at 28 days
- Flexural strength (EN 13892-2): 36 Nm at 28 days
- Impact resistance (UNI EN ISO 6272-1): 0.500/m Nm/501
- Resistance to permeability (UNI EN 1062-3): 0.0001 kg/m<sup>2</sup>\*h<sup>0.5</sup> at 5 days
- Reaction to fire (EN 13501-1) CLASS 1 after 28 days
- Adhesion resistance to concrete (EN 13892-8): 6 N/mm<sup>2</sup> after 28 days
- Determination of the chair with wheels (EN 425): absolute absence of defects
- Recommended minimum/maximum thickness for the application cycle is 3 mm. Consumption may vary depending on the consistency, porosity and surface condition, as well as the application method. The performance tests were carried out in our laboratories (laboratory temperature +21°C - humidity 65%).
- Slip: DIN 51097 Class A method 19° ≤ α < 27° - Anti-slip (DIN 51130): R11 - Environments for the production of food, kitchens of catering establishments, work environments with a strong presence of water and mud, clinics, laboratories, laundries, hangars;

## TECHNICAL DATA MARMURA:

- Appearance: White paste;
- Viscosity (UNI EN ISO 3219): ~ 130000 mPa\*s;
- Specific Weight (UNI EN ISO 2811-1): ~ 1.5 Kg/Lt ±3%;
- PH: > 9.00;
- Dilution: 5/7% drinking water (500 ml for both layers);
- Yield: 0.630 kg/m<sup>2</sup> in two layers
- Touch drying: 3 hours at +20°C.;
- Drying for walkability: 12h at +20°C.;
- Total hardening: ~24 hours at +20°C.;
- Stacking furniture: ~3 days at +20°C.;
- Total maturation: 28 days at +20°C.;
- Thermal resistance: -20°C ÷ +50°C
- Packaging: 7 liters and 2.5 liters + crystal microspheres;
- Storage: 24 months in intact packaging and protected from UV rays and humidity;
- Colors: 24 shades with TerrArgilla Toner;
- Classification for final use (UNI EN 1062.1 – 4.1): Decoration and Protection;
- Classification by type of binder (UNI EN 1062.1 -4.2): Acrylic Nanoresin;
- Classification by state (UNI EN 1062.1-4.3): Aqueous dispersion;
- VOC classification: Complies with the Legislative Decree. n°161 of 03/27/2006 (Implementation of Directive 2004/42/EC);

The times expressed are longer or shorter as the temperature decreases or increases. In accordance with the general principles - Principles of evaluation of the use of products and systems.

Test conditions: temperature 23±2°C, 50±5% R.H. and air speed in the test area <0.2 m/s. The data expressed may vary depending on the specific construction site conditions: temperature, humidity, ventilation, absorbency of the substrate.

## YIELDS OF PRODUCTS BY CYCLE:

- PRIMER NK 2.5 lt: **20 m<sup>2</sup> in a single layer**
- PRIMER BETON kg 20: **18 m<sup>2</sup> single layer**
- MARMURA LT 7: **20 m<sup>2</sup> in two layers**
- VETROLIQUIDO PRP LT 2,5: **18 m<sup>2</sup> in two layers**

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## TECHNICAL DATA PRIMER NK:

- Color: Off-white transparent
- Appearance: Liquid
- Dilution: Ready to use
- Specific weight: 1.5 kg/lit
- Dry residue: 67%
- Water solubility: soluble
- Average consumption: 6/8 m<sup>2</sup>/lit
- Average thickness: 300 µ
- Dust-free at approximately 23 °C: 3 hours depending on external humidity
- Time for coating overlap: 12 hours
- Flammability: Not flammable
- Storage: 12 months at a temperature between +5°C and +35°C away from humidity
- Temperature limits of use: +5°C / +35°C
- Packaging: 7 liters and 2.5 liters
- Cleaning of tools: With drinking water

## TECHNICAL DATA PRIMER BETON:

- Appearance: Powder;
- White color;
- Solid residue: 100%;
- Dilution: ~ 300 ml of drinking water per kg of product;
- Yield: ~ 0.900 g/m<sup>2</sup> with a thickness of approximately 1.5 mm in a single layer;
- Duration of the mix: About 3/4 hours at +20°C and based on relative humidity;
- G.F. grain size: Max 0.5 mm;
- Mineralogical nature of the aggregate: Silicon/carbonate;
- Consistency: Thixotropic;
- Density of the mix: 1,500 Kg/m<sup>3</sup>;
- Packaging: 20 kg;
- Store in original packaging, tightly closed and in a dry place with a temperature between +5°C and +30°C;
- UFI code: 0800-F0JY-8000-N9G7

## APPLICATION CHARACTERISTICS OF THE BETON PRIMER:

- Operating temperature: +5°C +35°C;
- Recommended application for internal and external walls and floors;
- Apply on very dry and clean supports;
- Cover fixtures, doors, etc. well;
- Do not apply on wet, frozen surfaces or on still damp restorations;
- Do not apply in the presence of strong sun, strong wind or rain;
- In the case of surfaces that are too hot due to the effect of the sun's rays, it is advisable to moisten them with water;
- Store in a cool, dry place away from the sun;
- Wait for the cement smoothing to cure before laying;
- It is important that during application and in the following 24 hours the temperature does not fall below +5°C and the relative humidity does not exceed 80%;

## TECHNICAL DATA OF PRP LIQUID GLASS:

- Color: transparent;
- Version: Satin 60 gloss and matt 20 gloss;
- Resistance: UV rays, non-yellowing;
- Wear resistance: high trampling resistance AR0.5;
- Dilution: ready for use;
- Yield: ±7/8 m<sup>2</sup>/lit in two layers depending on the absorption and the application tool used;
- Drying at +20°C and R.H. 65%: Dust-free after 1 hour, to the touch at least 2 hours, in depth within 24 hours;
- Slip: DIN 51097 Class A method 12° ≤ α < 18° - Anti-slip (DIN 51130): R11;
- Specific weight: 0.800 Kg/Lt ± 0.05 at 20°C;

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- Spray application: With pressure equipment; nozzles 1.5–2 mm, pressure 3-4 bar, distance from the surface 15-30 cm;
- Airless spray application: nozzles with a hole of approx. 0.45. mm, pressure 180 bar; spray angle 68°÷80°, distance from the surface 15-30 cm;
- Cleaning of tools: with synthetic thinner;
- Packaging: 1 liter – 2.5 liters - (15 kg on request);
- Storage: 12 months in the original, well-closed packaging and in a cool, dry place;
- VOC classification (Legislative Decree 27 March 2006 n°161): Product exclusively for professional use;
- ADR/RID ground transport: the product travels in ADR;
- Customs Code 3208 9099: Paints based on synthetic polymers or modified natural polymers, dispersed or dissolved in a non-aqueous medium;
- UFI code: HXJ0-Q0P5-300V-WGDG

\* From 1 January 2016 in Italy, formaldehyde has been cataloged as a carcinogen. The IARC (International Agency for Research on Cancer) classifies these substances based on how harmful they are to humans.

\*\* APEO-free indicates the characteristic of a product free from APEO (alkylphenol ethoxylate), a substance dangerous for the environment and aquatic organisms. The REACH regulation (Regulations EC 552/2009 EC 1907/2006 REACH) prohibits the use of APEO in concentrations equal to or greater than 1,000 ppm (parts per million) in Europe.

The indications and methods reported may be subject to additions and/or changes over time by Nikkolor Italia s.r.l.; for any such updates, you can consult the website [www.nikkolor.net](http://www.nikkolor.net). Nikkolor Italia s.r.l. is therefore responsible for the validity, currency and updating of its information only if extrapolated directly from its site. The technical data sheet is drawn up based on our best technical and application knowledge. However, as we cannot directly intervene on the conditions of the construction sites and the execution of the works, they represent indications of a general nature which do not bind our Company in any way. We therefore recommend a preventive test in order to verify the suitability of the product for the intended use.