

## **MONO-AQUA VARNISH SYSTEM**

### **(IMPREGNATOR SEALER + MONO AQUA VARNISH)**

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#### **DESCRIPTION OF THE PRODUCT**

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- Solvent-based protector system includes two products of finish and protection for «decorative concrete» coatings.
- This system protects concrete coating from current, moderate and non-stagnant forces and aggressors: oil, agents, cleansers, alcohol, coffee etc.

Both products are ready-to-use liquids:

1) **IMPREGNATOR SEALER** is white non-toxic water-based liquid.

It is used as an impregnator before varnish.

It hardens concrete surface and enforces the crystalline structure of the concrete forming mineral components of high firmness.

It increases waterproofing qualities of the surface by filling the pores between the grains.

It helps avoid traces of tools that appeared after former application of solvent-based products.

Applicable in 2 to 3 layers.

2) **MONOCOMPONENT AQUA VARNISH** is water-based acrylic polyurethane varnish.

The film obtained is characterized by durability and excellent suppleness.

It exists in two finishers: semi-matt and satin.

After drying it becomes colour-free and does not turn yellowish.

It is odor-free; it dries fast and leaves no traces.

It facilitates maintenance and cleaning.

Applicable in 2 to 3 layers.

#### **APPLICATION AREAS/SURFACE**

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- Indoors
- Walls and floors of private premises with moderate traffic (living rooms etc).
- It is applicable for kitchen floors, but in this case additional layers are required (protection from oils) until you consume 50% more product than recommended for regular use.
- Not adapted for bathrooms. For kitchens, use our bicomponent systems.
- Might be damaged by essential oils or become yellowish if you use too much bleach.
- Refer to our Sealers Overview in order to choose the most adapted product for your project (you can find it on our website or receive from our distributors).

#### **NECESSARY TOOLS**

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- IMPREGNATOR SEALER: varnish brush, spalter.
- MONOCOMPONENT VARNISH: flocked foam or microfiber roller (10 mm), extension pole if applied on floors.
- How to clean the tools: immediately after use.

#### **SURFACE PREPARATION**

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- At 20°C the surface must be at least 5 days old.
- Moisture of the concrete coating must be inferior to 5% according to D.T.U. 59.1 (the French Building Code regulations) «Mural Painting Work».
- It must be clean, dry, and free of oil, grease or laitance traces.
- On new decorative concrete coatings profound vacuum cleaning is necessary.

## MIX PREPARATION

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- IMPREGNATOR SEALER: ready to use.
- MONOCOMPONENT VARNISH: ready to use. Shake before use to homogenize the product. If necessary can be diluted with 5 to 10% of water (1st layer).

## APPLICATION

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### **Step 1:** IMPREGNATOR SEALER

- Room, surface and product temperature for product application must be between 12 and 30°C.
- The product is applied with a varnish brush (spalter) in a uniform way.
- Applied minimum in 2 layers (depending on porosity and surface of the concrete coating).
- Drying time: away from dust for 30 min at 20°C.
- Do not overcharge the surface with the impregnator sealer (risk of whitish traces), but apply in several levels until the product cannot penetrate any more. Do not leave any 'puddles'.
- Application of the 2<sup>nd</sup> layer: after 1 to 4 hours depending on the temperature.
- Leave to dry for 48 hours minimum at 20°C before application of mono aqua varnish.

### **Step 2:** MONOCOMPONENT AQUA VARNISH

- Application temperature must be between 12°C and 25°C, ideally at 20°C.
- The product is applied with a flocked foam roller or microfiber roller 10 mm in at least 2 layers (the 3<sup>rd</sup> layer might be necessary depending on the look and porosity of the concrete). Extension pole will facilitate application.
- Apply the 1st layer lightly diluted (5 to 10%) with crossing movements.
- Apply following layers, non-diluted, still crossing the movements.
- Waiting time between each layer is 2 hours.
- Do not exceed 24 hours' interval between the layers. In case you exceed the waiting time sanding is obligatory.

## FINAL DRYING

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- Drying time away from dust: 30 min.
  - Dry for touch: 1hour.
  - The surface will be in service for regular use after 1 week.
- During the first 10 days the use of the surface must be limited: do not cover it, do not put any carpets, do not move heavy furniture, apply only dry cleaning (vacuum cleaner or brush).
- Maximum hardness of concrete coating is achieved 28 days after the protections harden.
  - Regular maintenance is necessary. Its frequency is varied depending on a selected sealer and the way the area is used. In order to preserve the product and sealer, we advise to:
    - ✓ Place the felt pads under the legs of the furniture, chairs etc.
    - ✓ Not to leave any coloured water spots or grease stains... Wipe them out as soon as possible.
    - ✓ To clean surfaces with a shampoo MERCADIER.

## ROUTINE MAINTENANCE / RENOVATION

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- In order to preserve the product and its sealer (varnish, wax etc...) we advise to place the felt pads under the legs of the furniture, chairs etc. even if they are made from plastic.
- Do not leave any coloured water spots or grease stains for a long time. Wipe them out as soon as possible.
- Isolate flowerpots.
- To clean the surface use common non-aggressive cleaning products or our cleaning shampoo.
- Avoid any ammonia-based or any concentrated anti-limestone products.
- It is important to maintain the surface applying regularly a layer of the last sealer or a mineralising coating (to insure a good grip it is necessary to clean and polish the surface).
- The frequency of this operation depends on the use of the surface (make a test with a water drop: if it is absorbed, a new layer of the sealer must be applied).

## COVERAGE & PACKAGING & STORAGE

### IMPREGNATOR SEALER:

- Coverage: 70 ml and 90 ml/m<sup>2</sup> per layer.
- Format: cans:
  - 500ml (up to 4,2 m<sup>2</sup> for 2 layers)
  - 1 L (up to 7.1 m<sup>2</sup> for 2 layers)
  - 2 L (up to 14.3 m<sup>2</sup> for 2 layers).
  - 5 L (up to 35.8 m<sup>2</sup> for 2 layers).

### MONOCOMPONENT AQUA VARNISH

- Coverage about 72 ml/m<sup>2</sup> and by layer (varies depending on surface porosity) or 13,8 m<sup>2</sup> per litre
- Format of cans:
  - 1 L (up to 6.9 m<sup>2</sup> for 2 layers min for sufficiently impregnated surfaces)
  - 5 L (up to 34.5 m<sup>2</sup> for 2 layers min)
  - 20 L (up to 138 m<sup>2</sup> for 2 layers min).
- The cans can be stored for one year in its original unopened packaging in a place protected from the frost, heat and humidity.

## RELATED PRODUCTS

- Layered Decorative Concrete (EBC) – Trowelled Concrete (TC) – Pure Minéral Béton (PMB).
- Concrete Look Seamless Floors: self-levelling (INDUX-RBX) and self-smoothing (SOLIX-SC+).
- Metallic Repair Sealer
- Cleaning shampoo.

## RECOMMENDATION AND WARNING

- See the most recent version of this technical specification (see website). Our distributors and technical support are at your disposal for any clarification.
- Performance and durability guarantees for the decorative coating may be given only in case a complete system of MERCADIER products is used (primer, product itself, sealer) and strictly according to instructions for application and maintenance of the system. Thus, the manufacturer will not be liable for poor product's performance if an application did not conform to our instructions and if the integral system was not used.
- All the information, tips and advice relative to final illustration of MERCADIER products are given in good faith. They are based on knowledge and experience that MERCADIER has acquired so far regarding its products that were appropriately stored and handled, and applied in normal conditions. In practice, the differences between materials, surfaces and specific application conditions are such that provided information, written recommendations or given advice do not imply any warranty of merchantability other than the legal warranty against hidden defects.
- Colours and aspects in our colour charts are indicative, and cannot be considered as contractual. The same is applied for boards and panels displayed at retail outlets. It is preferable to use identical samples as much as possible. These products lead to results with subtle differences that can also arise depending on application conditions (applicator's gestures, temperature etc).

## SAFETY / PRECAUTIONS

- Caution: polyurethane resins may cause skin and mucous membrane irritation.
- VOC values:

<b>Product</b>	<b>Class/Category</b>	<b>EU limit value for the VOC</b>	<b>Limit value for the VOC in the product</b>
<i>Impregnator sealer</i>	<i>A/h Binding primer (water-based)</i>	<i>30 g/l</i>	<i>0 g/l</i>
<i>Mono Aqua Varnish</i>	<i>A/i: Special function monocomponent</i>	<i>140 g/l</i>	<i>75 g/l</i>

	<i>coating (water-based)</i>		
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In accordance with the new French regulations that establish limit value for the VOC (Volatile Organic Compound) present in constructions materials, this product MERCADIER respects the environment. This regulation states that construction and decoration products must be provided with a label indicating the level of volatile organic compound emission in a simple and readable way. Thus they are indicated depending on their class from A+ (no or low emissions) to C (strong emissions). Only because this product has not yet been tested, it is labeled as C, but this does not mean that it is harmful.