

## **BICOMPONENT SOLVENT-BASED VARNISH SYSTEM** **(IMPREGNATOR SEALER + SOLVENT-BASED VARNISH)** (Imprégnateur + Vernis Bi-Composant Solvanté)

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### **PRODUCT DESCRIPTION**

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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: oils, agents, cleansers, alcohol, coffee... ideal for countertops and worktops.

**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 to mark traces of tools that appeared after former application of solvent-based products.
- Applicable in 2 to 3 layers.

**2) BICOMPONENT SOLVENT-BASED VARNISH TO DILUTE** is a solvent-based bi-component varnish.

The kit includes varnish (component A) + hardener (component B) + Diluent

- Available in two finishes: semi-matt and satin.
- After drying it remains colour-free and does not become yellowish
- It emphasises the colours.
- It is durable and resistant to stains, chemical agents and abrasion.
- Applicable in 2 to 3 layers.

### **APPLICATION AREAS/SURFACE**

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- Indoor/outdoor.
- Countertops and credenzas, wash-basins, showers, baths.
- Protects decorative concrete from water, oils, grease, alcohol, household cleaning agents etc.
- **Not adapted for surfaces that are permanently under water: particular attention to slopes, especially those around water courses/drains.**
- **In spite of its exceptional resistance against chemical aggressions, you have to pay particular attention to splashes of oils, essential oils, coffee stains, sodas and powerful anti-limestone agents that might instantly stain or mattify the product or leave traces.** Certain chemical agents have such fine molecular structures (for example certain hair dyes in order to enter hair cuticle) might penetrate the varnish. We suggest to do the tests before real application for any atypical cases.
- In case of splashes, clean immediately.
- Refer to our Sealers Review Table in order to choose a product most adapted to your project (available on our website or at our distributors').

### **NECESSARY TOOLS**

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**IMPREGNATOR SEALER:** varnish brush, spalter.

**BICOMPONENT SOLVENT-BASED VARNISH TO DILUTE:**

- Microfibre roller 10 mm.
- Gloves and an adapted cartridge mask
- Related MERCADIER Diluent «Bicomponent Solvent-based Varnish Diluent».
- The tools must be cleaned immediately after use.

- To clean the tools: use «Bicomponent Solvent-based Varnish Diluent» right after application.

## **SURFACE PREPARATION**

- The surface must be at 20°C and aged not less than 5 days before application of the Impregnator Sealer.
- 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».
- The surface must be clean, dry and free of oil, grease or laitance traces.
- In case of renovation, we recommend cleaning with a powerful washing powder with the help of a single-disc polisher. Rinse well.
- On newly applied decorative concrete coatings profound vacuum cleaning is necessary.
- If the Varnish is used on vast floors, place 2 layers of the Impregnator Sealer at least 2 days before the varnish in order to avoid leaving traces of the tools on the surface.

## **MIX PREPARATION**

**IMPREGNATOR SEALER:** ready to use.

### **BICOMPONENT SOLVENT-BASED VARNISH:**

- Open cans with both components. Caution: when you start removing the caps they might open up briskly. To avoid splashes or leaking, keep your hand onto the cap while opening.
- Homogenize different components. Mix them keeping to the following proportions (in volume):  
5 parts of component A (varnish) + 1 part of component B (hardener) + 0.5 part of bicomponent solvent-based varnish Diluent
- Caution: you must prepare the new mix for each layer of varnish.

In case you have a full varnish kit, **do not mix all of it at once**: you should divide it into 2 or 3 parts to have “fresh” mix of varnish for each layer.

The mix can be used only within 6 hours.

Table of mix proportions (3 components) in liters:

Quantity, litres	Component A	Component B	Diluent	Total	Covered surface, entirely impregnated, m <sup>2</sup>		
					1st layer	2nd layer	3rd layer
Format 2.5 litres (+Diluent), full	2.08	0.42	0.21	2.71	24.6	45.1	15.9
Format 2.5 litres (+Diluent), divided in 2	1.04	0.21	0.10	1.35	12.3	22.6	8.0
Format 2.5 litres (+Diluent), divided in 3	0.69	0.14	0.07	0.90	8.2	15.0	5.3
Format 0,75 litres (+Diluent), full	0.62	0.13	0.06	0.81	7.4	13.5	4.8
Format 0,75 litres (+Diluent), divided in 2	0.31	0.07	0.03	0.41	3.7	6.8	2.4

## **APPLICATION**

### **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 solvent-based protector.

### **Step 2: BICOMPONENT SOLVENT-BASED VARNISH**

- Application temperature: 20°C (ideal).
- Relative moisture: inferior to 50%.
- With the help of a microfiber roller place the first layer crossing the movements to create a uniform film (be careful not



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- to "pull" the varnish too much to avoid leaks and uneven application).
- Leave to dry for at least 12 hours (do not exceed 24 hours' interval between the layers, otherwise sanding is obligatory.).
- Apply following layers in the same way as the first one.
- Drying time away from dust: 30 min and 1 hour at 20°C (varies depending on temperature, humidity and film thickness).
- Dry for touch: 4 hours.

## FINAL DRYING

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- The varnish must be protected from the rain within 24 hours after application.
- You can step on the surface 24 hours after application of the last layer.
- Through-drying: 48 hours after application.
- 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.
- 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

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### IMPREGNATOR SEALER:

- Coverage: 70 ml and 90 ml/m<sup>2</sup> per layer.

Format: cans

- 500ml (up to 3,6m<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).

### SOLVENT-BASED BICOMPONENT VARNISH:

Coverage: about 110 g/m<sup>2</sup> (A+B+Diluent) for the 1<sup>st</sup> layer (varies depending on surface porosity after Impregnator Sealer)

About 60 g/ m<sup>2</sup> (A+B+Diluent) for the 2<sup>nd</sup> layer

Or 170 g/m<sup>2</sup> for 2 layers or 5.8m<sup>2</sup>/litre

Format:

- 1) Full kit consisting of bicomponent varnish + Diluent
  - 0.75 L + DILUENT = 0.81 L (up to 4.8 m<sup>2</sup> for 2 layers min)
  - 2.50 L + DILUENT = 2.71 L (up to 15.9 m<sup>2</sup> for 2 layers min)
- 2) Only Diluent (to clean the tools) – 1 litre.

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

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- Layered Decorative Concrete (EBC), Trowelled Concrete (TC), Pure Minéral Béton (PMB).
- Self-leveling Concrete Look Seamless Floor (INDUX-RBX) – only after Impregnator Sealer
- Self- smoothing Concrete Look Seamless Floor (SOLIX-SC+) – only after Impregnator Sealer
- Metallic Repair Sealer.
- Cleaning shampoo.
- Solid Wax "Les Trois Matons".

## RECOMMENDATION AND WARNING

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- 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 the 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).

## HIGIENE/PRECAUTIONS

### Danger information

H226	Flammable liquid and vapour
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Caution advice - Prevention :

P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection

### Caution advice - Intervention :

P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

### Caution advice - Storage :

P403 + P235	Store in a well-ventilated place. Keep cool.
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VOC values:

Product	Class/Category	EU limit value for the VOC	Limit value for the VOC in the product
Impregnator sealer	A/h Binding primer (water-based)	30 g/l	0 g/l
Bicomponent Solvent-Based Varnish	A/j: Special function bicomponent coating for specific finishing, for example for floors (solvent-based)	500 g/l	499 g/l



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.

