

### DESCRIPTION

BIOSUR ECOADVANCE is a breathable, lime-based inorganic paint with a low VOC content (volatile organic components). It is totally environmentally friendly, since when it is applied to the surface, it goes through a carbonation process. During this process it settles, dries and hardens; for which it absorbs a large amount of Carbon Dioxide (CO<sub>2</sub>) from the environment (theoretical CO<sub>2</sub> fixation percentage = 9.5). It also contains additives aimed at eliminating the formation of fungi and algae that attack surfaces in tropical climates. It has good hiding power over different substrates and proper final leveling, making it ideal for the protection and decoration of residences and buildings.

### USE

It can be applied on EXTERIOR / INTERIOR concrete surfaces, plasterboard, fiber cement, mortars, and others.

### STRUCTURE

Ceilings, concrete fascia boards, walls, internal divisions, columns.

### PROPERTIES

#### SPECIAL PROPERTIES

Hiding Power	●	●	●	○	○
Weather Resistance	●	●	●	●	○
Anti-fungal	●	●	●	○	○
Finish	Matt				
Free of lead and mercury					
Primer:	Primary and Finish for concrete				
Breathability	Yes				
Permeability (to water vapour)	Yes				

#### PHYSICAL PROPERTIES

#### DATA

VOC (volatile organic compounds) (g/L)	< 22
Stormer Krebs Viscosity (Ku)	70-85
Theoretical yield (m <sup>2</sup> /gallon)	45 m <sup>2</sup> at 1 mils

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# TECHNICAL INFORMATION

## BIOSUR ECOADVANCE

502-00324-000



pH	11.5-13.5
Volume Solids (%)	29 - 31
Weight Solids (%)	45 - 47
Weight per gallon (kg/gal)	4,85 - 5,05

Definition of theoretical yield: Maximum surface that can be coated with a paint in ideal conditions. Practical yield varies depending on type of surface, tool used, applicator experience, and other factors. 1 mil = one-thousandth of an inch (0.0254 mm).

Note: Values referring to white.

Note: Scale is 1 to 5, where 5 is the best value.

### CONTAINERS

#### AVAILABLE CONTAINERS

1 gallon can (3.785 Lt.)

5-gallon bucket (18.925 Lt.)

#### AVAILABLE COLORS

White 000

### SURFACE PREPARATION

CONDITION	INSTRUCTION
<b>New surface</b>	Remove any grease residue, paints or other contaminants from the surface with hand or power tools, sandblasting, pressure washer or scarifier, to obtain an appropriate anchor pattern. And finally rinse with hose and broom. Do not use detergents.
<b>Existing Concrete or Hydraulic Lime Surfaces:</b>	The condition of the mineral surface that has been exposed for a certain period must be evaluated. Check for concrete dusting or other problems, such as cracks or crevices that require repair, if so contact a technician for recommendations.
<b>Surface with capillary moisture:</b>	All areas affected by capillary moisture should be treated with our Sistema Transpirable SUR, a breathable system which helps to dehumidify the walls. This process promotes the release of moisture and, on its way, carries the salts that would otherwise remain inside the structure, ending up damaging any coating applied to it. In technical words, our SUR breathable system works as a filter through its layers, carrying harmful moisture from the wall outwards. Its results are noticed at first as some

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kind of moisture stains (when the dehumidification of the wall begins), but these culminate with the homogenization of the substrate. In order for this filter to be established, it is essential to comply with the entire system at its thicknesses specified in the technical data sheets. These can be established as follows:

- MORTERO DESHUMIDIFICANTE CÓD. 39562-720-K25
- MORTERO TRANSPIRABLE GRUESO CÓD. 39563-026-K40
- MORTERO TRANSPIRABLE FINO CÓD. 39564-000-K20

Before applying the breathable system apply our FUNGICIDE SOLUTION 334-900. After 20 minutes rinse with plenty of water.

In internal or poorly ventilated areas, apply our mold and fungus cleaner NIT 33305-600, wipe with a microfiber cloth and reapply, but this time do not clean, allow to dry completely on the surface.

After cleaning, apply the breathable system. For more information, see the Technical Sheets for each of the mortars.

<b>Glossy or satin areas</b>	Thoroughly clean and degrease the entire surface. Apply a coat of our sealer 524-000 SELLADOR UNIVERSAL to ensure adhesion of any water or solvent base paint. Finally, apply this finish.
<b>Gypsum board</b>	Plaster and sand those areas that require it, then wipe off residual dust from the entire surface with a damp microfiber cloth. Then apply a coat of our sealer SELLADOR 522-000. Finally, coat with our SUR finish of your choice.  Note: In this case, it is important that the sealer be diluted with 20 to 25 % of water for a better penetration into the surface.
<b>Surfaces with fungi or algae</b>	On surfaces with fungi, algae or lichens, apply our SOLUCIÓN FUNGICIDA 334-900, let 20 minutes and rinse with plenty of water. In areas that cannot be washed, apply NIT CLINICAL DISINFECTANT CLEANER 4 33260-600, clean with a microfiber cloth and reapply, but this time do not wipe out, let it to dry completely on the surface. After cleaning, ensure surface is completely dry before applying a coat of SELLADOR 522-000. Finally, apply this finish.
<b>Concrete:</b>	New areas must be fully cured for 28 days (setting time), dry and clean. Finally, apply this finish.

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### PRODUCT PREPARATION

COMPONENT	MIXING RATIO	MIXING INSTRUCTIONS
Product: 502-00324-000 ECOADVANCE	BIOSUR 100%	Shake well before use:
Diluent Clean Water	Max 5%	Ready-to-use product.
		Do not exceed the maximum recommended dilution.

### PRODUCT APPLICATION

#### APPLICATION TOOLS

BRUSH                      Roller

#### Application conditions

New areas must be fully cured for 28 days (setting time), dry and clean.

Do not apply this product when relative humidity exceeds 85%, with rain or with certain threat that it will rain in a short time, as it would alter some characteristics of the application or the product's performance.

#### Number of layers and thickness

Number of coats:	Minimum 2
DRY THICKNESS PER LAYER (MILS)	1.5 mils

Outdoors, surfaces treated with BIOSUR ECOADVANCE 502-00324-000 should be protected from rain for the first 8 hours after application.

Due to its mineral base, this paint may develop water marks upon contact with water before complete drying.

#### Drying time

Drying time to repaint	1 hour
Total drying time	7 days
Touch-Dry	10 minutes

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### Final Instructions

On new concrete surfaces, no sealant is required, so it can go directly to the substrate.

On surfaces with matt acrylic paints, the use of sealant SELLADOR 522 is recommended, to later apply this finish. In addition, the surface preparation section specifies the different types of surfaces and their preparation for the use of this product.

### NOTICE:

- ✓ Do not wash a painted surface with abrasive detergents, liquid detergent with plenty of water and soft sponge is best.
- ✓ If you need other information for safe handling of this product, you can visit our website <https://www.gruposur.com/asistencia/>
- ✓ Store this product in its sealed factory container between 20 °C and 30 °C, in a dry, ventilated place, out of the reach of children.
- ✓ Do not use this product in high temperature conditions
- ✓ Do not apply in full sun, to avoid accelerated drying

### HEALTH

- ✓ If you need to dispose of empty packages of our products in Costa Rica, contact your SUR store or our industrial compound in La Uruca, San Jose.
- ✓ The user of this product may need the appropriate Personal Protective Equipment, as described in the respective Safety Data Sheet (MSDS), available on our website <https://www.gruposur.com>

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