

Protekto Ecosilan

TECHNICAL DATA PROTEKTO ECOSILAN

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Description:

Protekto EcoSilan is a colorless finish composed of a chain of silicon atoms and nanoparticles and a blend of silanes and siloxanes in an aqueous emulsion. It penetrates deep into the capillaries of the substrate, making it hydrophobic yet breathable. It is non-film-forming, has a permanent effect, is UV-resistant, does not yellow under any environmental conditions, and leaves surfaces naturally treated. It is an environmentally sustainable and advanced product, contains no added *formaldehyde or **APEO, and has a very low VOC content.

Intended use:

- Protekto EcoSilan is designed for the protection and decoration of Cemento 3D, Marmorino Lime, Marbled Mirror, ArchiMetal, and Microcem-FB coatings. Its use varies among shops, warehouses, hospitals, bars, restaurants, mechanical, pharmaceutical, and food industries, and private homes.

Substrate preparation:

- Substrates must be dry, solid, and free of dust, paint, wax, oil, loose particles, and seasoned surfaces.
- We recommend contacting our technical support team to ensure a perfect base before starting work.

Preparation and application:

- Product is ready for use; mix thoroughly before use.
1. Apply Protekto EcoSilan using a synthetic brush, using crisscross, transverse, horizontal, and vertical strokes to allow the product to penetrate deeply into the substrate;
 2. Let dry for 12 hours (+20°C);
 3. Apply a second coat of Protekto EcoSilan as done for the first coat;
 4. The second coat must be applied 12 hours after application and within 24 hours of the first coat (+20°C).

Important notes:

- Do not apply the product if rain is imminent;
- After applying Protekto EcoSilan, no other water-based products can be applied.
- Application temperature: between +5°C and +30°C, and at least 4 degrees above the dew point.
- Avoid application on surfaces exposed to excessive sunlight, substrates, and/or frost.

Technical Data:

- Appearance: Liquid;
- Specific gravity: 1.00 ± 0.05 kg/l at 20°C;
- Composition: Silicon atoms, nanoparticles, blend of silanes, siloxanes in aqueous emulsion;
- Base colors: Characteristic;
- Obtainable colors: Not colorable;
- pH: > 9.00;
- VOC classification: 8.6 g/l;
- Coverage: 10 m²/l in two coats, depending on substrate absorption;
- Dilution: Ready to use;
- Operating temperature: +10°C and +30°C;
- Drying: Touch dry in 2 hours, thoroughly dry in 24 hours at 20°C;
- Application: Roller, brush, airless;
- Cleaning tools: Water;
- Odor: Odorless;
- Packaging: 2.5 L;
- Cleaning instructions: Clean using a damp microfiber cloth;
- Storage: Store in tightly closed original packaging in a dry place between +5°C and +30°C;
- Washing resistance: Resistant to washing > 15,000 cycles (Gadner UNI 10795 UNI 10560);
- Water vapor permeability: High UNI 10795 UNI EN ISO 7783-2;
- Alkali resistance: UNI 10795;
- Dirt pick-up: Low UNI EN 10792;
- According to the UNI EN 1062-3 standard, at values of W24 < 0.1, the product is classified in Class III, corresponding to low water absorption;

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- Safety (per EEC regulation): The product is not flammable or dangerous;
- Precautionary statements: Not subject;
- Risk phrases: Not subject;
- Land transport ADR/RID: Not subject;
- Symbols: The product does not require labeling pursuant to Legislative Decree No. 65 of 14/03/2003 and subsequent amendments and updates.
- It is water-based for a more eco-friendly treatment;
- Easy to apply;
- Natural effect;
- Does not noticeably alter the aesthetic appearance of the treated surface;
- Reduces the adhesion of mold and algae, providing breathable, long-lasting, and restorable protection;
- Prevents water penetration and helps keep the treated surface clean;
- Does not yellow under any environmental or aging conditions;
- Provides protection for historic buildings or buildings of particular architectural value;
- Does not form a surface film;
- Has high penetration capabilities;
- Does not alter the aesthetic appearance of the substrate;
- Is not hazardous under current European regulations on the classification of preparations;
- Can be applied both indoors and outdoors.

Compliant with the UNI EN 15457 standard (resistance to fungal growth), thanks to the presence of specific broad-spectrum additives, the product prevents the formation of mold, fungi, algae, and moss over time.

*Since January 1, 2016, formaldehyde has been classified as a carcinogen in Italy. The IARC (International Agency for Research on Cancer) classifies these substances based on their harmfulness to humans.

**APEO-free indicates a product free of APEO (alkylphenol ethoxylate), a substance hazardous to 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 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.

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