

POLYMER-SILICONE PAINT

- Suitable for facades and unheated rooms
- Deep matte finish
- Vapor-permeable
- Blocks substrate absorbency
- Biostatic - prevents growth of algae and fungi



ECOPROX Polymer-Silicone Paint is a matte facade paint based on a polymer-silicone dispersion. It is vapor-permeable and has low surface absorbency. Silicone additives effectively protect the coating from atmospheric conditions and reduce its susceptibility to dirt. The paint safeguards external walls of buildings from moisture absorption. It also has additional UV protection, making it highly effective in sunny areas. Thanks to the acrylic dispersion, the product is highly durable. The paint is also suitable for unheated rooms (such as hallways, basements, and underground garages), protecting them from mold, algae, lichen, and fungi, and preventing their growth (when used with a deep-penetrating primer with fungicide). Available in white and in the **Ecoprox** tinting system.

APPLICATION

ECOPROX Polymer-Silicone Paint is intended for the renovation of all sound mineral substrates or synthetic binder coatings. It can be used for renovating old acrylic dispersion-based paint coatings, stone imitations, natural stones, and screen walls. It is suitable for external walls of buildings, insulation systems based on polystyrene and mineral wool, external surfaces exposed to moisture, surfaces exposed to atmospheric conditions, and unheated rooms.

TECHNICAL PARAMETERS

Type of paint:	Polymer-Silicone Facade Paint
Color:	White
Tinting bases:	Base A – white product with the possibility of tinting in pastel colors Base C
Tool cleaning and thinning:	Water
Density (PN-82/C-8155):	approx. 1.50 kg/dm ³

Viscosity Brookfield 20±2°C (PN-ISO 2555):	18 000 – 26 000 mPa*s
Coverage:	Depending on substrate structure: 8-12 m ² /l
Average consumption:	approx. 0.2 l/m ² (2 coats)
Recommended number of coats:	2 coats
Application:	Brush, roller, spray
Application and storage temperature:	from +5°C to +25°C for air and substrate
Relative air humidity:	≤75%
Maximum moisture content of substrate for painting:	up to max. 5% (confirmed by moisture meter)
Drying time (PN-C-81519):	3-4 hours, 20±2°C, at relative air humidity 55%
Applying next coat:	after a minimum of 3 hours, 20±2°C, relative air humidity 55%
Minimum substrate moisture for painting:	Up to a maximum of 5% (confirmed by a moisture meter)
Full curing time:	28 days (20±2°C, at relative air humidity 55%)
pH value (PN-C-04963):	approx. 8.2
Solids content (PN-EN ISO 3251):	60%
Recommended wet film thickness (PN-EN ISO 2808):	90-100 µm
Maximum grain size (Granulation) (PN-EN 13300):	Fine, up to 100 µm
Water vapor permeability:	high > 150 g/(m ² •24 h); 0.14 < Sd < 0.14 m
Standard:	PN-C-81913:1998 - dispersion paints for building facades
Relative diffusion resistance of coating with 150 µm thickness:	Sd = 0.54 m (standard requirement Sd ≤ 2.0 m)

Surface absorption coefficient:	w = 0.08 kg/m ² •h0.5 (standard requirement “w” ≤ 0.5 kg/m ² •h0.5)
Packaging:	1 L, 5 L, 10 L
Quantity per pallet / gross Weight:	5 L – 60 pcs. / 450 kg 10 L – 44 pcs. / 650 kg
VOC content (allowed 40 g/l):	VOC free
Warranty:	18 months from production date in originally sealed packaging.

SURFACE PREPARATION

The substrate should be prepared according to construction standards: even or textured, dry, load-bearing (without cracks or fissures), and free from dust, dirt, oils, greases, and loose paint residues. It should be free from lichen, moss, algae, mold, stains, biological and chemical efflorescence, and anti-adhesive agents that reduce adhesion. All loose layers that are not properly bonded to the substrate should be removed. Any defects and cracks should be repaired according to construction standards.

Fresh cement and cement-lime plasters can be painted no sooner than after a 4-week curing period. Before painting with facade paint, they should be primed with a deep penetrating primer with fungicide to reduce absorbency, strengthen the substrate, and improve paint efficiency. When painting the first coat, a small amount of water up to 5% can be added to the paint. Priming prevents errors regarding the state of the substrate and affects the paint's adhesion and durability over the years. Cases of not priming can be justified, but this is at the customer's discretion and responsibility. Do not use on substrates exposed to prolonged water exposure. Smooth surfaces should be sanded with sandpaper and primed with a paint primer or undercoat paint. The topcoat paint can be applied 24 hours after priming.

PAINT PREPARATION

The paint is ready to use. Before application, thoroughly mix the contents of the container with a hand or low-speed mechanical stirrer to avoid foaming and excessive dilution. After performing trials, corrective dilution of the paint is possible by adding up to 5% by volume of tap water or a primer preparation for paints (applies to the first coat). For spraying, you can add 0-10% water (applies to two coats). Adding more than 5% water to the paint may affect its coverage. The decision to add water and its amount depends on the type of sprayer, pressure, and nozzle. Proper paint preparation for painting

and spraying is the responsibility of the contractor. Do not add chalk, lime, or other materials. Do not mix with other products.

APPLICATION

Apply the paint to the substrate in two coats using a brush, a special polyamide woven roller for facade paints, or by spray application after proper dilution (including "airless" method). Apply the second coat only after the first coat is completely dry, after approximately 3-4 hours. Mechanical spraying should only be performed in windless weather. It is recommended to use a paint roller with microfiber, string, polyacrylic, or polyamide fleece with a pile length of 18 mm to 25 mm.

MIXING WITH OTHER MATERIALS

Do not mix with other products. Adding up to 5% water or primer for paints is permissible. Products from other manufacturers may adversely affect the application. Any interference with the product's composition is unacceptable and can significantly reduce the quality of the material used. Due to the various technologies and raw materials used in products by other manufacturers, the producer is not responsible for the consequences of mixing its product with other products. Not using the system primer or using primers and undercoats from other manufacturers is possible, but a trial painting is necessary. An unsatisfactory final result in such cases is not subject to complaint.

EXECUTION NOTES

When tinting the product, to avoid color differences, it is essential to complete surfaces forming a separate architectural whole in one work cycle, using material from the same production batch. If it is necessary to use products from different production batches, it is recommended to mix them together to unify the shade. Any touch-ups should be done on the second dried layer of paint. Before starting to paint, it is advisable to check the color consistency in all containers against the placed order.

For difficult, uncertain, or unknown substrates, perform reference tests on smaller surfaces using various primers or undercoats, including deep-penetrating primer, paint primer, stain-blocking paint, and anti-stain paint. A paint primer with quartz grain can be specifically used to improve texture or increase surface matting. Do not paint in strong winds or if there is a risk of rain, and avoid painting surfaces exposed to direct sunlight. Large surfaces in dark colors should dry evenly, which can be facilitated by using scaffolding nets.

DRYING

The drying time for one layer of paint applied to a substrate (at a temperature of $+20\pm 2^{\circ}\text{C}$ and relative air humidity of 55%) is approximately 3-4 hours. Lower temperatures and high humidity can significantly extend the total curing time of the product. The paint has a mild odor, but enclosed spaces

(if painting indoors) should be ventilated after painting for full comfort (but not during drying). After painting facades, protect them for 24 hours to ensure the ambient temperature does not drop below 5°C.

To protect the not fully dried paint coating from atmospheric factors, it is recommended to use appropriate protective nets on scaffolding. Protect the painted surface from water streams, drips from roofs, and cornices (regarding the sequence of construction works and protective measures). Low temperature (minimum 5°C during painting) and high air humidity (should not exceed 75%) prolong the paint drying time, and the desired effect is not guaranteed.

CLEANING TOOLS

Tools should be cleaned with water or with the addition of dishwashing liquid immediately after finishing work. Before washing, thoroughly wipe the tools to remove as much paint as possible. Clean tools and surfaces splattered with paint before the paint hardens (approximately 6 hours).

SAFETY AND FIRE SAFETY GUIDELINES

Volatile Organic Compounds (VOC) content: cat A/a. The product is VOC free. Permissible limit is 40 g/l. The paint contains biocidal products: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-4-isothiazolin-3(2H)-one 3:1 (CAS 55965-84-9); (Ethylene dioxide) dimethanol (CAS: 3586-55-8); 3-iodo-2-propynyl butylcarbamate (CAS: 55406-53-6).

May cause allergic reactions. In case of eye contamination, rinse with plenty of water. In case of ingestion or irritation, seek medical advice immediately, showing the label, Technical Data Sheet, and Safety Data Sheet. Keep out of reach of children.

STORAGE

Store for 18 months from production date in the original sealed packaging, between +5°C to +25°C. Store leftover product tightly sealed for up to 3 weeks. Protect from freezing and excessive sunlight.

ENVIRONMENTAL PROTECTION AND DISPOSAL

Do not pour liquid residues into sewage, water, or soil. Dispose of empty containers for recovery or disposal. For more information, refer to the current Safety Data Sheet available on: www.ecoprox.eu



GUARANTEE AND QUALITY COMPLAINTS

The manufacturer guarantees that the product, when used correctly and following application requirements, achieves the desired final effect. In case of any abnormalities during application, suspend work and notify the seller. For large surfaces (minimum 1000 m²), it is recommended to perform a reference application on a smaller architectural segment.

IMPORTANT INFORMATION

The data in the Technical Data Sheet is based on laboratory research and practical experience, provided with the best knowledge of the manufacturer. Product quality is ensured by our production and quality control system. Due to diverse substrates and application conditions, each Buyer/User must verify at their own risk the suitability of **ECOPROX** products for their intended purpose, considering site-specific conditions and requirements, and adhering to technical and safety standards. We cannot control conditions under which the product is used or various factors affecting its application and utilization. We also do not assume liability for losses or damages resulting from incorrect application or improper storage, handling, and transportation of products.

As the Manufacturer, we assume the product is used by individuals with appropriate skills. The product is intended for professional use, meaning the Buyer/User has sufficient preparation to use the product while strictly observing technical and safety conditions. The Buyer/User is responsible for substrate preparation, reference application, and correct integration of the product with other companies' products. The information provided above is in good faith, based on current knowledge and practical experience. The Manufacturer reserves the right to change the content of the Technical Data Sheet without prior notice to recipients. Earlier versions of the data sheets become invalid upon release of this Technical Data Sheet. The latest versions of technical and safety data sheets are available at:

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