ACT Architectural Colour Tools

LIME SOAP GLUE PAINT – for OUTDOOR USE – Product data sheet

Lime Soap Glue Paint (LSGPo) is a paint consisting of a mineral binder (lime), soap, water, and mineral pigments. The soap enhances durability and wear resistance compared to using lime alone. The pigment improves coverage. Lime Soap Glue Paint can be used on masonry as well as wood outdoors, and in moisture-exposed areas indoors – though not directly in wet zones. Lime-soap paint is formulated with a focus on colour, durability, climate impact, and environmental considerations.

Product Description

Lime Soap Glue Paint (LSGPo) is a ultra-matt paint for outdoor use, as well as for indoor rooms with critical moisture conditions. It is more durable than pure lime and at the same time provides an alternative to acrylic/ plastic paints. The product contains no plastics and therefore does not degrade into microplastics. LSGPo is environmentally friendly and has a low carbon footprint. Surfaces painted with LSGPo can be recycled after degradation.

Product Properties

LSGPo is a diffusion-open and mineral-based façade paint that supports the structure's natural ability to regulate moisture balance and reduces the risk of moisture accumulation and flaking.
It does not form a closed film but allows the substrate to breathe and actively contribute to the façade's overall performance. The paint chemically bonds to mineral substrates through carbonation, achieving strong and durable adhesion on absorbent surfaces such as lime render and mortar. It is naturally UV-resistant and preserves colour appearance over time. The high pH value of lime inhibits the growth of algae and mould. The product is free from plastics and can be maintained or refreshed without complete removal, as new layers bond to the existing treatment.
LSGPo creates attractive light reflection through the natural pigments that settle on the surface.

Application

It is important that the substrate is absorbent in the areas to be painted in order to promote adhesion.
LSGPo is particularly suitable for application on rough and planed wood, brick, lime, fine renders, and exterior plaster, as well as in moisture-exposed areas indoors — though not in the wet zone itself.
LSGPo is also available in a product version for other interior applications.

Application limitations

LSGPo does not cure by film formation like most other paints.
The product is intended for absorbent surfaces such as render, but can also be applied to rough and planed wood. LSGPo is therefore not suitable for concrete, roof tiles, cement, or similar surfaces.

Recommended coverage

Depending on the absorbency of the substrate, 1 litre of LSGPo covers between 4 and 8 m^2.

Tools

LSGPo for outdoor use is best applied with a lime brush or a wide brush.
As LSGPo is highly alkaline, it is important to wear protective goggles and gloves during application.
Please refer to the safety data sheet for information on protective equipment.

Application method

Any previously plastic-painted surfaces must be removed before application. It is essential that the substrate is clean, dry, sound, and absorbent to ensure proper adhesion. The paint should be worked thoroughly into the substrate, and wet-on-wet application is recommended. LSGPo must be applied in thin coats – at a minimum working temperature of 5°C.

Stirring

LSGPo must be stirred thoroughly before use and then re-stirred approximately every fourth application.
When left standing in the container, the paint has a creamy consistency. After stirring, it becomes more fluid and easy to apply, and it drips less than many other paints.
A maximum of 5% water may be added.
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Colours

White is the standard colour for LSGPo and can be tinted with a slightly longer delivery time.

Drying time

Depending on the substrate, LSGPo takes approximately 30 minutes to dry.
It can be recoated after 24 hours.
The temperature must be at least 5°C with a maximum relative humidity of 60%.

Cleaning

After completing the painting work, it is environmentally acceptable to clean brushes and buckets in the drain. However, this still requires permission.
Please refer to the safety data sheet for further information.

Storage

LSGPo for outdoor use must be stored in tightly closed original packaging – in a dry, cool, frost-free place and kept upright.

Enquiries

Please contact us with any questions or comments:

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WHITE LIME SOAP GLUE PAINT(LSGPo) - for OUTDOOR USE – Test results

	Result	Limit value
Compliance with Emission Requirements Emission Standards	Indoor Air Comfort GOLD – Complies with requirements Indoor Air Comfort – Complies with requirements ABG / AgBB – Complies with requirements Belgian Regulation – Complies with requirements EU Taxonomy – Complies with requirements Blue Angel (DE-UZ 12a) – Complies with requirements Italian CAM Edilizie – Complies with requirements French VOC Regulation – A+ (complies with requirements) French CMR Components – Complies with requirements	-
VOC	<2,1 g/L	Decopaint: 30,0g/L EU Ecolabel: 10,0g/L
SVOC	<0,29 g/L	EU Ecolabel: 30,0 g/L
GWP_{total} (A1-A3) [kg CO_2eq]	0,907 kg CO2eq per kg KSL 0,130 kg CO2eq per m2 0,635 kg CO2eq per liter	Se EPD: MD-26009-EN Based on a single coat of paint applied to plasterboard.
Formaldehyde emissions	Not detected	Test criterion limit for IAC Gold: < 10 µg/m3
EU taxonomy	Complies with requirements	
Water vapour diffusion resistance (Z-value)	0,57 GPa · s · m^2/kg	< 10
Consumption per m^2	1 litre covers 4–8 m^2 depending on the substrate.	-
Solid content	41,2 %	-
Density	0,7 g / cm3	-
PFAS	Not detected	-
PCB	Not detected	-
Asbestos	Not detected	-

All tests have been carried out by either Altox, Artelia, Eurofins, or the Danish Technological Institute.

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WHITE LIME SOAP GLUE PAINT - for OUTDOOR use – test results explanation

Solids content
Solids content indicates the percentage of paint that remains as solid material when liquid and volatile substances have evaporated. Solids content affects layer thickness, coverage and yield per coat.
LSGPo solids content: 41.2%.

Density
Density indicates the weight of the paint per volume. Density affects how much the paint weighs per litre and therefore its coverage and layer thickness per coat.
A lower density may provide greater coverage per litre, while a higher density gives a more concentrated layer.
LSGPo density: 0.7 g/cm^3.

Coverage rate
The indicative coverage per litre is 4–8 m^2. Coverage is used to calculate consumption but depends on the substrate and its absorbency.

Vapour Permeability
The z-value of 0.57 GPa·s·m^2/kg indicates resistance to water vapour transmission.
The lower the z-value, the more vapour permeable the material is. The higher the z-value, the more vapour resistant it is.
The low value means that LSGPo is highly vapour permeable and does not restrict moisture movement.

EU Taxonomy
An EU classification system that defines which economic activities are considered environmentally sustainable. LSGPo complies with the relevant emissions requirements.

VOC and SVOC
VOC (Volatile Organic Compounds) and SVOC (Semi-Volatile Organic Compounds) may be harmful to both the environment and health.
LSGPo contains <2.1 g/L VOC and <0.29 g/L SVOC and is therefore a low-emission product.

No Formaldehyde
Formaldehyde is a volatile organic compound that may be harmful to health when inhaled and may occur in certain building materials.
Analyses of LSGPo have not detected formaldehyde.

No PFAS
PFAS are a group of chemicals used in many products. They are difficult to break down and may be harmful to health.
Analyses of LSGP have not detected PFAS.

Units in Product Data Sheet
≤	: less than or equal to
<	: less than
µg	: microgram
mg	: milligram
g	: gram
kg	: kilogram
µm	: micrometre
cm^3	: cubic centimetre
m^2	: square metre
m^3	: cubic metre
GPa	: gigapascal
s	: second