

TECHNICAL DATA SHEET

LAVACRYL SILICATE PLASTER

DESCRIPTION

LavaCryl Silicate Plaster is a pasty water-glass based plaster with excellent breathability so that moisture is not trapped inside the masonry. It is based on a new generation aqueous dispersion of stabilized potassium silicate and is fully compatible for applications in buildings of historical or architectural value. It has very high breathability and at the same time excellent waterproofing, water repellency and elasticity.

LavaCryl Silicate Plaster reacts and creates a chemical bond with the substrate ensuring excellent adhesion, while its inorganic mineral nature makes it immune to UV radiation, keeping its shades unchanged over time. It is easy to use and maintains its excellent workability for a long time, giving the applicator the opportunity to correct the treated surface and any mistakes made during application. It is available in white while it can be colored in all shades of the international coloring systems (NCS, RAL, etc.).

Classified as external render and internal plaster based on organic binders, according to EN 15824.

APPLICATION AREAS

LavaCryl Silicate Plaster is specially designed for building facades and is applied to surfaces such as external thermal insulation, anti-fracture systems but also in classic construction applications (new construction, repair etc.) replacing the classic final marble mortar plaster. It can be used both externally and internally since its special composition without ammonia, container preservatives and hazardous substances such as heavy metals, free formaldehyde, and aromatic hydrocarbons makes it ideal for application in all interior residential or professional spaces. In its finest grain size of 1.0 mm it can also be used to achieve both a smooth, uniform color, surface and as a free-design plaster for a multitude of styles.

APPLICATION INSTRUCTIONS

Surface preparation

LavaCryl Silicate Plaster is applied on plaster, concrete, cement boards, plasterboards, etc. The substrate must be dry and free of dust, oils, loose materials, etc. For application on smooth substrates, we first apply the quartz-based **LavaContact** adhesion primer. We apply **LavaCryl Silicate Plaster** after the primer or intermediate mortar of the substrate has completely dried.

Application

Before use, good stirring is required with a hand mixer. **LavaCryl** is applied with a smooth, stainless-steel trowel or by using a spray machine in a thickness equal to the size of the grain size or desired technique. Before the surface dries and while it is still fresh (depending on the substrate and the temperature we calculate 10-20 minutes after application) the final texture is given to the surface using smooth plastic spatula.

CONSUMPTION

The consumption is proportional to the granulometry:

- **Lavacryl 1,0mm**
~1,8 kg/m²/mm
- **Lavacryl 1,2 mm**
2,1 kg/m²/mm
- **Lavacryl 1,5mm**
2,3 kg/m²/mm

CLEANING

Clean the tools immediately after use with water.

STORAGE

12 months from the date of production in unopened package kept in a dry place

SAFETY

Read carefully the label of the product before use. Detailed instructions regarding hazards and safety are provided in the Safety Data Sheet, which is available upon request.

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Technical Data (Measurement conditions 23°C and 50% R.H.):			
Form	paste	Adhesion strength	0,4 MPa
density	1.7-1.9 g/cm ³	Water vapour permeability	V1: Υψηλή SD < 0,14 m
Application temperature	from 5 °C to 35 °C	Water absorption	W2: Medium 0,5≤w<0,1kg/m ² ·h ^{0,5}
Consumption	<ul style="list-style-type: none"> • Lavacryl 1,0mm ~1,8 kg/m²/mm • Lavacryl 1,2 mm 2,1 kg/m²/mm • Lavacryl 1,5mm 2,3 kg/m²/mm 	Thermal conductivity (λ _{10,dry})	0,9W/(m.K)
Touch time	4-6hr	Reaction to fire	Euroclass A2-s1, d0




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NOTICE

The technical information and instructions provided in this datasheet referring to the application and end use of PROLAT products are based on the company's expertise and experience with the products to date. They are provided in good faith under the condition that the products are stored, used, and applied in accordance with PROLAT's instructions. However, given our inability to directly oversee conditions at construction sites or during product application, the company cannot guarantee the suitability of its products for specific purposes, nor does it assume any legal responsibility based on the information provided in this brochure, whether written, oral, or otherwise communicated. Users are advised to conduct a small test to assess the suitability of the products for their intended application and purpose of use. The company reserves the right to modify the properties of its products without prior notice.

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PROLAT S.A. Production of Minerals and Mortars Afroditis 50 - P. Faliro, PC:175 61, Greece DoP No: 045-PROLAT-CPR
EN 15824:2017 LAVACRYL SILICATE PLASTER External renders and internal plasters based on organic binders Water vapour permeability: V1 Water absorption: W2 Adhesion: 0,4 MPa Durability: NPD Thermal conductivity: $\lambda = 0,9 \text{ W}/(\text{m}\cdot\text{K})$ Durability (against freeze/thaw): NPD Reaction to fire: Euroclass A2-s1, d0 Dangerous substances: According to paragraph 4.8