

## KRISTALLAT – the pure silicate paint.

### PRODUCT DESCRIPTION.

KRISTALLAT is a mineral based one-component silicate paint without any synthetic or organic binders or organic solvents or biocides.

KRISTALLAT is a more user friendly alternative to the two-component silicate system where mineral pigments and water glass (fixative) are mixed together before use.

KRISTALLAT is completely open for diffusion of water vapor and carbon dioxide.

KRISTALLAT is matt, lime like, water based silicate paint for both exterior and interior use.

KRISTALLAT is particular suitable for renovation of old substrates as well as for new.

KRISTALLAT can be produced in grey, anthracite, black, yellow, red, green and blue colors with absolutely lightfast inorganic pigments and mineral fillers.

KRISTALLAT is an ecological, long term durable and economical silicate paint.

### APPLICATION AREAS

Surfaces/Substrates	Exterior	Interior	Notes.
Cement plaster	<b>X</b>	<b>X</b>	
Lime/Cement plaster	<b>X</b>	<b>X</b>	
Lime plaster	<b>X</b>	<b>X</b>	
Concrete facades	<b>X</b>	<b>X</b>	Silicate paint on Concrete floors only when minor loads and interior. WATERGLASS or PRIMER for dust binding.
Light Concrete and burned brick.	<b>X</b>	<b>X</b>	Pre-treat with PRIMER reduces capillary suction.
Clay plaster	<b>X</b>	<b>X</b>	
Paper/plaster board		<b>X</b>	
Wood		<b>X</b>	Enhance fire protection.

The mineral substrate to be painted must be dry, have capillary suction capacity and be well bonded. KRISTALLAT is primarily recommended for new constructions or substrates without old paint.

Substrates with old silicate paint (genuine silicate paint with maximum 4 % acrylates), lime or lime/cement paint can be painted with KRISTALLAT.

KRISTALLAT must not be applied on substrates with old synthetic or film forming paints (acrylates, alkyds or oil based).

New plaster should dry out and carbonate for at least 2 weeks.

KRISTALLAT can also be applied on wood and paper/plaster boards interior.

### PRODUCT PROPERTIES.

KRISTALLAT contain mineral pigments and mineral fillers and water glass. The binder in KRISTALLAT is water glass which through the processes of carbonatization and silicization generates a micro crystalline , open and not filmforming structure. These chemical reaction are taken place between the carbon dioxide in the air, the mineral substrate and the water glass.

KRISTALLAT generates lightfast colors on mineral facades with high scrub resistance and resistance to acid rain.

KRISTALLAT is hydrophilic, does not bind to synthetic plastic surfaces.

Due to its high alkalinity KRISTALLATES provides a sustainable protection against growth of fungus and algae.

KRISTALLAT is completely free from organic solvents, organic binders and biocides.

Note.

Synthetic/organic binders like acrylates are bonded like glue (physical adhesion) to the substrate and forms continuous films which prevents water vapor diffusion. They are also degraded by sunlight and weather with a shorter lifetime as result.

## **INSTRUCIONES.**

### **Preparation of the substrate.**

The substrate must have a good capillary suction capacity, be dry and free from dust and grease. Loose particles, oily substances, moss and algae completely removed. Old lime paint must be removed, use a brush. Old filmforming paint must be removed chemically or mechanically. Major holes and cracks can be renovated with a mixture of KRISTALLAT and a filler like crushed marble.

When the substrate has loose particles or is porous pretreat with WATERGLASS (diluted 1:1 with water) and always on new plaster and substrates with lime residues.

For substrates with high suction capacity, like light concrete, aerated concrete, brick is PRIMER more effective to reduce capillary suction. Pretreat with undiluted PRIMER until the substrate is saturated.

### **Usage of KRISTALLAT**

Stir KRISTALLAT before use. Can be diluted with WATERGLASS.

KRISTALLAT is applied with brush, roller or airless spraying (after work with brush is recommended). Apply two coats to achieve full coverage. The KRISTALLAT paint shall be applied with cross like strokes and wet in wet.

### **Conditions.**

Air and substrate temperature  $> + 5^{\circ}\text{C}$  and relative airhumidity  $< 80\%$ . Do not apply in direct sunlight or on sun heated surfaces.

Protect coated surfaces from rain and sun light during and after application.

### **Drying time.**

Drying time is 8 hours between the coats.

### **Consumption.**

Consumption is 1 Liter per 5-7 m<sup>2</sup> depending substrate structure, pretreatment and way of application.

### **Cleaning of tools.**

Tools are easily cleaned in water.

## **PRODUCT SPECIFICATION.**

Content: Potassium waterglass, pigment, fillers and water.

PH value: 11

Density 1,6 kg/Liter.

KRISTALLAT is delivered in plastic containers with 9 Liter (14,5 kg) and 3 Liters (4,8 kg).

Unbroken container has a shelf life of 2 Years. Must be protected against freezing.

KRISTALLAT can be delivered in 300 different standard colors as shown on website

[www.alabasterfarg.se](http://www.alabasterfarg.se)

200 ml color samples are available for at site evaluation.

Only oxide pigment and earth pigments are used for best color stability.

**SECURITY and ENVIRONMENT**

<p><b>Warning</b> </p> <p><b>Irritates the skin</b> <b>Causes serious eye damage.</b></p> <p>Wash your hands thoroughly after use. Wear protective gloves, eye protection and protective clothes. BY SKINCONTACT: Wash with lots of soap and water. BY EYECONTACT: Rinse carefully with water for several minutes. Remove contact lenses if possible. Continue rinsing. Contact immediately POISONINFORMATION CENTER or medical doctor.</p>
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KRISTALLAT, WATERGLASS and PRIMER react with glass so windows and ceramics must be protected.

Residues and containers are deposited at local environment- and recovery site.

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