

# Alcasil

## Description

Mural paint based on potassium silicate, inorganic pigments, selected quartz, quality additives. Applied onto mural substrates, it reacts with the mineral salts present in the plaster and with carbon dioxide and humidity from the air, thus forming a organic-silicate lattice of significant hardness.

Such reactions give the product: no film-forming (consequently, no peeling, flaking or cracking over time); maximum breathability, as humidity is not trapped in; high resistance to the formation of algae and fungi; colourfastness and weatherproofness; typical aesthetical appearance, more or less marked with halos and *chiaroscuro*. It is of prime importance that the wall to be decorated is not already coated with plastic coatings or washable outdoor paint, which could prevent the reaction of the silicate component with the substrate.

The surface to be coated must be homogeneous. Restoration patches should only be performed using the same type of plaster as the one existing on the wall, otherwise stains may become visible due to differences in the reaction between the paint and the substrate.

## Uses

The product is suitable for coating any type of mineral substrate, except for gypsum (be it plaster, plasterboard or gypsum prefab).

It is particularly indicated for obtaining an antique appearance together with high resistance and breathability, similarly to ancient coloured plasters or lime-based paints.

## Surface preparation

Ensure that the substrate is perfectly dry and seasoned (at least 4-6 weeks, otherwise the alkalinity from the surface may prevent permeation and adhesion of the paint), free from friable and oily residues, from restoration patches made out of a mortar other than the existing plaster, from saline efflorescences, plant formations, bacterial colonies.

New, uniform walls: brush, dust and prime with 1 coat of ALCASIL FISSATIVO.

Walls painted with silicate-based or lime-based paints: dust or brush in order to remove possible flaking layers, then proceed as for new wall.

Mural surfaces painted with emulsion paints, lime, synthetic paints or plastic coatings: brush and remove poorly-adhering parts, traces of dust and greasiness. Apply 1-2 coats of ALCASIL FONDO DI CONTATTO appropriately diluted.

## Application

Apply ALCASIL by brush or roller. Allow at least 10 hours from the primer coat, and 10-12 hours between the 1<sup>st</sup> and the 2<sup>nd</sup> coat of paint. A single coat is generally sufficient for

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obtaining excellent coverage and good colour homogeneity; however a 2<sup>nd</sup> coat is necessary for optimum protection of the substrate.

Upon application of the 2<sup>nd</sup> coat, a characteristic halo-effect will appear. Such effect can be reduced by applying a coat of ALCASIL FISSATIVO between the 1<sup>st</sup> and the 2<sup>nd</sup> coat of paint.

It is advisable not to apply more than 2 coats of paint, as the halo-effect may turn into blooming.

Apply at temperatures between 5°C and 30°C. Do not apply on hot or ice-cold surfaces, nor exposed to sun, during thawing or if frost is likely, in presence of strong wind, in imminence of rain or with high relative humidity. Application onto saline efflorescences or capillary humidity causes poor adhesion and colour unevenness. It is therefore necessary to preliminarily reclaim the surface. Treated surfaces must be protected from possible rain for at least 48 hours. Slightly and slowly mix before diluting and before using.

### Dilution

Add 20-30% of water. In order not to weaken the effectiveness of the product, it would be opportune to dilute by adding 15-20% of ALCASIL FISSATIVO.

### Cleaning tools

With water immediately after use.

### Storage

6 months in sealed container, away from sources of heat, in a cool and ventilated place, protected from frost.

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## Technical data

PRODUCT	Silicate-based paint
SPECIFIC WEIGHT	1,390 ± 0,050 kg/l
VISCOSITY	15000 ± 2000 cP Brookfield at 23°C
pH	7-9
GLOSS	Matt
COLOUR	White, <i>palette</i> tones. <b>Compatible only with dispersions of inorganic pigments (iron oxides, chromium oxides, et cetera)</b>
RECOMMENDED THICKNESS	50-60 dry µm for each coat
RECOMMENDED COATS	2 coats
RECOAT TIME	10-12 hours
APPLICATION METHOD	Brush, roller
THEORETICAL YIELD	4-5 m <sup>2</sup> /l for 2 coats
TOUCH-DRY (23°C)	1-2 hours
DEEP-DRY (23°C)	18-24 hours

### REV 1/2023

The aforementioned technical notions regarding the application and correct use of the product do not imply liability of Alcas Italia S.r.l. for use and application of the products themselves. Due to the unpredictable variability of application conditions, the USER must verify with direct tests the suitability of the product for each peculiar use. We reserve the right to modify the content of this document, without notification. As soon as a new version of these technical data sheet becomes available, this one won't be valid any longer.

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