



Potassium Waterglass

Productinformation Article no. 607

08.08.2018

■ General

Concentrated silicifying and curing binder for KREIDEZEIT silicate paint. Also diluted as a primer for KREIDEZEIT wall paints. Can be used for plaster fixing before overpainting with other KREIDEZEIT wall paints and plasters, usually additionally primed with Casein Primer (article no. 145) or Vega Primer (article no. 2104).

Silicate Paints (waterglass paints) are one of the most resilient exterior coatings in the painting trade. It is not uncommon for exterior walls painted with Silicate Paints to still look good 20 years later. Waterglass is essentially glass dissolved in water. Only Potassium Waterglass is suitable for the production of paint. This is made out of quartz sand and potash. Silicate Paint is cured by absorbing carbon dioxide from the air. In this process, the waterglass is "silicified" and binds pigments to the substrate.

■ Uses

For exterior and interior walls. Suitable exclusively for use on untreated and non-water repellent lime and lime cement plasters that do not contain any synthetic resin, as well as for renovating old silicate coats free of synthetic resin.

Transparent fixing of clay plaster: Contrary to widespread recommendations, we expressly advise against transparent fixing of clay plasters with Potassium Waterglass. Such a treatment often goes hand in hand with a crystalline whitish-cloudy appearance and ruins the optical impression. Lithium Waterglass (article no. 605) is better suited for the transparent fixing of clay plasters.

■ Properties

- good penetration properties
- diffusible
- non-yellowing
- alkaline (pH 12)
- water and acid resistant
- non-combustible
- can be diluted with water in any ratio
- biocide-free
- vegan

■ Composition (Full Declaration)

Water, potassium silicate

■ Suitable Tools

Quality paint brushes and airless spray guns.
Recommended from the Kreidezeit range:
Facade brush (Article no. P 6080)
Lime brush (Article no. P 6082)

■ Important information for application

Technical expertise and experience is required to apply Silicate Paint. All information on application and mixing ratios is purely a recommendation and is not binding. Variations may occur depending on the substrate conditions and previous experience and should be determined by someone with experience of working with silicates.

■ Test Surface

Before any large-area application, the suitability of Potassium Waterglass for the respective application and substrate must be checked by the processor by applying test surfaces !

■ Substrate Requirements

The substrate must be **absorbent**, structurally sound, clean, dry, solid, non-greasy and free from colouring and permeating ingredients.

■ Preparing The Substrate

Time to wait until application on fresh lime plaster: at least 8 weeks.

- Carefully cover all surfaces not to be painted, especially glass, clinker, tiles, metal, wood.
- Thoroughly remove glue bound paints and chalking or non-load-bearing old coats.
- Thoroughly wash off wallpaper glue residues from the substrate.
- Remove dust from surfaces, sweep off sanding surfaces.
- Check old coatings for good adhesion and remove if necessary.
- Remove binder deposits and sintered skin from plaster surfaces. Remove formwork oil residues on concrete. Etch fresh calcareous plasters.
- clean mould-infested mineral substrates with soda lye

■ Dilution

Before processing, lithium water glass must be diluted with water in a ratio of at least 1:1. Stronger dilutions may be necessary. Do not use undiluted !

■ Application and drying conditions

Avoid direct sunlight, draughts, dirt and surface temperatures below 5°C and over 25°C. Do not apply to heated facade surfaces. Avoid allowing the substrate to dry too quickly.

Processing and drying temperatures:

At least 5°C for at least 48 hours.

Silicate Paints may not be applied below 5°C (take into account the risk of overnight frost). Protect coats applied outdoors from sun and rain in the first few days.



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■ Application

Silicate Paint

For processing, the current product information „Pure Silicate Paint“ is to be observed, available at: www.kreidezeit.de

Hardening of Plasters

Dilute 1 part potassium water glass with at least 2 parts water. Application by painting. Do not roll! It is essential to apply from bottom to top to avoid runners. Make sure that the water glass solution penetrates completely, otherwise shiny areas may remain. As a rule, a whitish-cloudy coating result occurs after drying. Brush the surface with a soft broom before painting over.

■ Drying Times at normal Climate

The paint becomes dust-dry after 2-3 hours. Additional coats can be applied after at least 24 hours

■ Application Rates

On plaster (dilution 1:2) :

per m² approximately:

- 0.1 litre of Potassium Waterglass
- + 0.2 litre of water

Accurate consumption values to be determined at site.

■ Cleaning the Tools

Immediately after use with water. Store tools in water during work breaks.

■ Container Sizes

- Article no. 607.1 0,75 l
- Article no. 607.2 2,5 l
- Article no. 607.3 5 l
- Article no. 607.4 10 l

Please refer to the valid price list for product prices.

■ Storage

Stored frost-free and tightly sealed, Potassium Waterglass has a shelf life of at least 3 years. Do not store in galvanized or aluminium containers.

■ Disposing Leftover Product

Do not put product residues into the waste water, but store them in an airtight container and use them later. Dried product residues can be added to household waste. Place completely emptied containers in the recyclables collection.

Observe current official regulations for the disposal of paint and paint residues.

■ Hazard Classification

none, non-dangerous product

■ EU VOC Value acc. to 2004/42/EC

VOC limit / Max. VOC content (cat. A/h): 30 g/l (2010), Product contains max. 1 g/l VOC.

■ Warning

The product is alkaline. Wear safety glasses and protective gloves during application. Protect all other surfaces against paint splashes (especially glass, brick, tiles, metal parts and oiled/varnished wood)! Paint splashes must be removed immediately using plenty of water (risk of irreversible stains, including on glass lenses).

In case of skin contact: Rinse with plenty of water.

If skin irritation persists, seek medical attention.

In case of eye contact: Hold the eyelids open and rinse eyes under running water for several minutes and seek medical attention. Pay attention to possible natural substance allergies.

The natural raw materials used can give off a typical product odour! **Keep out of reach of children!**

The information above was determined based on our most recent experiences. Due to processing methods and environmental influences, as well as the varying nature of the substrates, liability for the general validity of the individual recommendations is excluded. Users must test the product prior to application to ensure it is fit for the designated purpose (sample coating).

This document is no longer valid if a new version is published or the product is modified. For the latest product information, please contact Kreidezeit directly or visit our website at www.kreidezeit.de