

KEIM Royalan®-Dilution

Silicate primer and thinner/dilution for KEIM Royalan coating systems



1. Product description

KEIM Royalan-Dilution is a thinner and primer or pretreatment comprising pure liquid potassium silicate with small quantities of other additives for use with the KEIM Royalan system. KEIM Royalan-Dilution reacts chemically to bond with the mineral surface.

2. Field of application

KEIM Royalan-Dilution is used as thinner/dilution for the KEIM Royalan coating system.

KEIM Royalan-Dilution is used as a clear primer for consolidation of dusting and sanding surfaces before painting. Also it is ideal as a primer for highly absorbent mineral substrates to control or reduced adsorption. KEIM Royalan-Dilution is not suitable for surfaces with salt efflorescence, on wood and enamels.

3. Product properties

KEIM Royalan-Dilution chemically bonds (silicification) with the substrate, it is extremely water vapor permeable, highly resistant to weathering and incombustible.

- Chemically bonds with the substrate
- Non-film-forming
- Noncombustible – will not burn
- Resistant to acid rain and industrial pollution
- Solvent resistant
- Absolutely UV-stable
- Non-toxic
- Highly water vapor permeable
- Algae, fungal and mold resistant

Material characteristics

- Density: approx. 1.03 g/cm³
- Flash point: non flammable
- pH-Value: approx. 11
- VOC's ASTM D6886: < 1 g/l
- Vapor permeability 75 – 85 perms

Color shade

Milky

4. Application instructions

Substrate preparation

The substrate must be sound, solid, dry, clean and free of dust, grease, oils, salts, moss, algae and other substances that would prevent bonding. Old resin coatings, loose substrate layers and organically bound coats must be removed.

Application

For pre-treating/priming dusting or highly absorbent substrates:

Apply KEIM Royalan-Dilution undiluted with a brush, roller or low pressure spray.

For diluting KEIM Royalan, or KEIM Royalan-Grob:

See relevant Technical Data Sheet.

Application conditions

Air and surface temperature > 41 ° F (> 5 ° C)

Drying times

A drying time of at least 12 hours must be allowed between pretreatment and priming and between coats.



Consumption

For pretreatment on a smooth substrate:

Approximately 600 - 800 sq.ft. per 1.3 gallon container or 2400 - 3200 sq.ft. per 5.3 gallon container of KEIM Royalan-Dilution.

The stated consumption value is for guidance and depends on the absorbency and texture of the substrate. Exact consumption values can only be determined by applying trial areas on the structure to be coated.

Tools

Clean with water immediately after use.

5. Packaging

1.3 gallon (5 liter) and 5.3 gallon (20 liter) containers

6. Storage

Shelf life is approx. 12 months in a sealed container under cool, frost-free conditions. Protect from heat and direct sunlight.

7. Hazardous substances ordinance class

n/a

8. Transport hazard class

n/a

9. Disposal

EC Waste code No. 06 02 99

Dispose completely emptied canisters in accordance with local, state and federal regulations.

10. Safety instructions

KEIM Royalan-Dilution is alkaline. Cover areas which are not to be coated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes. Do not swallow. Keep out of reach of children.

Refer to the relevant safety data sheets.

This product is only intended for the sale to and the application by professional applicators. The application instructions as well as the labelling are to be adhered to. The recommendation values and characteristics stated are the result of intensive development work and practical experience. Our verbal and/or written recommendations regarding the use and application of our products are to assist in the choice of our products and are not the basis of a contractual and/or legal relationship. They do not release the purchaser and/or applicator from the obligation to verify the suitability of our products for the intended application with due diligence. The prevailing general rules of building technology are to be respected. KEIMFARBEN GmbH & Co. KG has adopted a policy of constant product development. Modifications serving the improvement of the product or its application are reserved. This edition supersedes all earlier editions.

