

## KEIM Royalan®-Grob

Filled, silicate paint for base and intermediate coats



### 1. Product description

KEIM Royalan-Grob is a highly filled, silicate based priming paint for preliminary coats on difficult substrates in subtropical/tropical conditions. KEIM Royalan-Grob can be used in certain cases as a bridging coat on previously painted surfaces or to close non-moving hairline cracks up to 0.2 mm and equalize different textures.

The Royalan system forms a chemical bond with the mineral substrate offers water repellency, and high vapor permeability. KEIM Royalan-Grob is made using pure inorganic mineral fillers, lightfast inorganic pigments, additives, potassium silicate binder and glass fibers.

### 2. Field of application

KEIM Royalan-Grob serves as a primary and intermediate coat within the KEIM Royalan system. It can be used on all absorbent and mineral surfaces in combination with the products of the KEIM Royalan system.

KEIM Royalan-Grob should not be applied to large horizontal or slightly inclined areas.

### 3. Product properties

KEIM Royalan-Grob is non-fading and contains only absolutely lightfast inorganic pigments.

- Highly water vapor permeable
- Lightfast
- No solvents added
- Easy to overcoat
- Non-flammable
- Non-film-forming

- Mineral matt
- All components UV-resistant
- High resistance to weathering
- Resists industrial pollution and acid rain
- Resists extreme climatic conditions
- Water repellent
- Ease of application

### Material characteristics

- Diffusion equivalent  
air layer thickness:  $s_d = 0.01 \text{ m}$  (1 coat)
- Water vapor  
transmission rate:  $V = 2.100 \text{ (g/m}^2\text{d)}$   
(1 coat)
- Water vapor permeability 83 perms
- Density:  $Q = 1.6/\text{cm}^3$
- Thermal Expansion: comparable to the mineral substrate to which it is applied.
- Flash point: non-flammable

### Color Shades

White, colors upon request.

### 4. Application instructions

#### Substrate Preparation

The substrate must be sound, dry, absorbent, clean, dust- and grease-free. Loose and brittle parts, dirt, oily and greasy materials, moss, algae and other surface contaminants are to be entirely removed by suitable mechanical and/or chemical means. Old, film-forming coatings which may hinder the vapor diffusion and/or which are not well adhering should be removed with KEIM Bio Stripper (paint stripper) or by mechanical means. Well adhering organic old coatings that are not removed must be coated with KEIM Contact-Plus



as bridging coat prior to subsequent applications of KEIM Royalan products.

Not suitable over old plasto-elastic coatings or coatings and substrates susceptible to saponification.

For strongly absorbent or sanding substrates a pretreatment with KEIM Royalan-Dilution, undiluted, is recommended. Possible sinter layers on new renders/stuccos/plasters must be removed with KEIM Lime Remover (Ätzflüssigkeit) according to product instructions. Also Render/Stucco/Plaster repairs must be treated with KEIM Lime Remover (Ätzflüssigkeit) according to the product instructions in the technical data sheet.

Before coating areas that are subject to strong weathering or environmental stress, pretreatment with KEIM Silan-100 or KEIM Silangrund is recommended for maximum weathering protection.

### Application

KEIM Royalan-Grob may be applied by brush, roller or airless spraying (nozzle size 0.94 mm/0.037 in.). Application by brush is best for crack filling as it can be worked into all surfaces well. A minimum drying time of 12 hours between coats must be maintained.

### Base coat

KEIM Royalan-Grob diluted with up to 20 % of KEIM Royalan-Dilution.

On surfaces of strong differences in structure and/or many hairline cracks (≤ 0.5 mm) a base coat of KEIM Contact-Plus should be made instead of KEIM Royalan-Grob.

### Top coat

With KEIM Royalan, undiluted, or diluted with up to 5 % of KEIM Royalan-Dilution.

### Working conditions

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

Do not apply under direct sun or on heated surfaces. Substrates should be protected during and after application from direct sun, wind and rain.

### Drying times

A drying time of 12 hours minimum is to be respected between the different coats of KEIM Royalan, and / or KEIM Royalan-Grob and / or KEIM Contact-Plus. After a pretreatment with KEIM Silan-100 or KEIM Silangrund, the first coat should be applied after 4 hours.

### Consumption per 1 m<sup>2</sup> (10.8 sq ft)

For a base or intermediate coat on a smooth surface: approx. 0.2 kg KEIM Royalan-Grob and 0.05 l (1.7 fl oz) KEIM Royalan-Dilution per coat.

These consumption figures are typical values and strongly depend upon the absorption and texture of the substrate as well as on the application procedure. Exact consumption ratios may only be defined by trial applications on the project.

### Tools

Clean immediately after use with water.

### Mixing with other products

In order to maintain the specific features of KEIM Royalan and the related system products, they may not be mixed with other products or additives nor may they be diluted with water.

## 5. Packaging

5 kg and 25 kg containers



## 6. Storage

Approx. 12 months, if kept cool, but frost free in tightly closed original unopened containers. Protect from heat and direct sunlight.

## 7. Hazardous substances ordinance class

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 26: Avoid release to environment. Refer to special instructions/safety data sheets.

## 8. Transport hazard class

n/a

## 9. Disposal

EC Waste code No. 08 01 11

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

## 10. Safety instructions

KEIM Royalan-Grob 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 of paint. 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 labeling 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.

