



## TECHNICAL DATA SHEET

# KEIM ROYALAN<sup>®</sup>-GROB

## 1. PRODUCT DESCRIPTION

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

KEIM Royalan system provides water repellency, vapour permeability and forms a chemical, insoluble bond with the mineral substrate. KEIM Royalan-Grob is manufactured using pure inorganic mineral fillers, lightfast inorganic pigments, additives, potassium silicate binder and glass fibers.

## 2. FIELD OF APPLICATION

KEIM Royalan-Grob serves as base or base and intermediate coat within the KEIM Royalan system. It is used on all absorbent and mineral surfaces. In combination with the KEIM Royalan system products the most various application fields are possible.

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

## 3. PRODUCT PROPERTIES

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

- Water vapour permeable
- Lightfast
- No solvents added
- Easy to repaint
- Non-flammable
- Non film-forming
- Mineral matt
- All components UV-resistant
- High resistance to weathering
- Resists industrial fumes and acid rain
- Water-repellent
- Easy to apply
- Resists extreme climatic conditions

### Material characteristics

- Diffusion equivalent air layer thickness (one coat):  $s_d = 0.01 \text{ m}$

- Density: approx.  $1.6 \text{ g/cm}^3$
- Thermal Expansion: Comparable to the mineral substrate to which it is applied
- Flashpoint: non-combustible

### Colour Shades:

White, colours upon request

## 4. APPLICATION INSTRUCTIONS

### Substrate Preparation:

The substrate must be sound, dry, absorbent, clean, free from dust and grease. Loose and brittle parts, dirt, oily substances, moss, algae and other surface contaminants have to be completely removed by suitable mechanical and/or chemical means.

Old, film-forming coatings which may impair the vapour diffusion and/or which are not well adhering must be removed with KEIM Dispersionsentferner (paint stripper) or by mechanical means.

Well adhering organic old coatings should be primed with KEIM Contact-Plus as bridging coat prior to subsequent application of KEIM mineral products.

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

A pretreatment with undiluted KEIM Royalan-Dilution is recommended for strongly absorbent or sanding substrates. Possibly existing sinter layers on new renders are to be removed with KEIM Ätzflüssigkeit (lime remover) according to manufacturer's instructions. (Partial) render repairs are generally to be treated with KEIM Ätzflüssigkeit (see Technical Data Sheet).

A pretreatment with KEIM Silan-100 or KEIM Silangrund is recommended for areas subject to strong weathering or environmental stress before the coating process.

### Decoration:

KEIM Royalan-Grob should be applied by paint brush and worked well into all surfaces, always keeping a wet edge.

### Base coat:

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

In case of strong differences in structure and/or many hairline cracks ( $\leq 0.5 \text{ mm}$ ) the base coat is to be performed



with KEIM Contact-Plus instead of KEIM Royalan-Grob.

### Top coat:

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

### Working conditions:

Air and surface temperature: > 5 °C.

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 Silangrund the first coat should be applied after approximately 4 hours.

### Consumption per m<sup>2</sup> :

For two coats onto a smooth surface: approx. 0.2 kg KEIM Royalan-Grob and 0.05 l KEIM Royalan-Dilution.

Top coat: 0.2 kg KEIM Royalan and a corresponding quantity of KEIM Royalan-Dilution.

These consumption figures are typical values and strongly depend on the texture of the substrate as well as on the application method. Exact consumption values can only be defined by applying trial areas on the structure to be coated.

### Tools:

Clean immediately after use with water. Tools should be kept in the paint material or in water during work breaks.

### Mixing with other products:

In order to maintain the specific features of KEIM Royalan and the related system products, they must 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 in tightly closed container under cool, frost-free conditions. Protect from heat and direct sunlight.

## 7. DISPOSAL

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

## 8. 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.

Please, refer to the relevant EC Safety Data Sheet.

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 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.



KEIMFARBEN GMBH

Keimstraße 16 / 86420 Diedorf / Tel. +49 (0)821 4802-0 / Fax +49 (0)821 4802-210  
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 (0)35456 676-0 / Fax +49 (0)35456 676-38  
[www.keimfarben.de/info@keimfarben.de](http://www.keimfarben.de/info@keimfarben.de)