



1. Product information

KEIM Royalan-Grob is a highly filled, silicate-based priming paint for preliminary coats on difficult substrates in subtropic/tropic 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 equalise different textures.

The Royalan system offers water repellency, vapour permeability and forms a chemical bond with the mineral substrate. 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 resp. primary and intermediate coat within the KEIM Royalan system. It is used on all absorbent and mineral surfaces. In combination with the products of the KEIM Royalan system the various application areas 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 overcoat
- Non-flammable
- Non-film-forming
- Mineral matt
- All components UV resistant
- High resistance to weathering
- Resists industrial fumes and acid rain
- Resists extreme climatic conditions
- Water repellent
- Ease of application

Material characteristics

- diffusion equivalent air layer thickness (1 coat):
 $s_d = 0.01 \text{ m}$
- specific weight: approx. 1.6 g/cm^3

- flashpoint: non-flammable
- colour Shade: white, colours upon request

4. Application

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 are to be removed with KEIM Dispersionsentferner or by mechanical means. Well adhering organic old coatings are to be coated with KEIM Contact-Plus as bridging coat prior to subsequent applications of KEIM mineral products.

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

For strongly absorbent or sanding substrates a pretreatment with KEIM Royalan-Dilution, undiluted, is recommended. Possibly existing sinter layers on new renders are to be removed with KEIM Ätzflüssigkeit (Lime remover) according to manufacturers instructions. (Partial) render repairs are generally to be treated with KEIM Ätzflüssigkeit (Lime remover) acc. to the prescriptions in the technical data sheet.

Before coating areas subject to strong weathering or environmental stress a pre-treatment with KEIM Silan-100 or KEIM Silangrund is recommended.

Decoration

KEIM Royalan-Grob should be applied by brush and should be worked well into all surfaces.

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 made 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 : $> 5^\circ\text{C}$

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 1 m²

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 upon the 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.

During work pauses the tools should be kept in the product or 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 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.

S61: Avoid release to environment. Refer to special instructions/safety data sheets.

8. Transport hazard class

Not applicable

9. Disposal

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

10. Safety instructions

KEIM Royalan-Grob is alkaline. All areas which are not be coated with KEIM Royalan-Grob i.e. glass, natural stone, ceramics, wood, etc., are to be protected by suitable measures. Splashes on these or traffic and other surrounding areas must be removed immediately with plenty of water.

Protect eyes and skin from splashes. Do not swallow. Keep out of the 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.

