



TECHNICAL DATA SHEET

KEIM ROYALAN®

1. PRODUCT DESCRIPTION

KEIM Royalan is a ready-to-use mineral silicate paint for exterior use in subtropical or tropical climatic conditions. KEIM Royalan provides water repellency, high vapour permeability and forms an insoluble chemical bond with the mineral substrate. KEIM Royalan is made of pure inorganic mineral fillers, absolutely lightfast inorganic pigments, additives and potassium silicate as binder.

2. FIELD OF APPLICATION

KEIM Royalan can be used for all mineral, absorbent substrates due to its excellent product properties. KEIM Royalan is particularly suitable for old and new surfaces. A variety of applications are possible in combination with the products of the KEIM Royalan System.

Not suitable for:
horizontal and inclined surfaces exposed to weathering

3. PRODUCT PROPERTIES

- easy to rework
- easy to clean
- easy to paint
- mineral matt
- highly water-repellent
- extremely weather-resistant
- resistant against industrial emissions
- durable even under extreme climatic conditions
- absolutely UV-resistant
- fire behaviour: non-flammable
- no solvents added

MATERIAL CHARACTERISTICS:

- Density: approx. 1,25 - 1.45 g/cm³
- pH value: approx. 11
- Colour fastness (Fb-code pursuant to BFS Leaflet No. 26): A1

CLASSIFICATION:

- Classification according to: DIN EN 1062-1
- Diffusion-equivalent air layer thickness (sd-value): ≤ 0,01 m
- Diffusion-equivalent air layer thickness class: V1
- Standard Diffusion equivalent air layer thickness DIN EN ISO 7783: DIN EN ISO 7783
- Water permeability: ≤ 0,1 kg/(m²√h)
- Water permeability rate class: W3
- Standard Water permeability rate DIN EN 1062-3: DIN EN 1062-3

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- Gloss level at 85°: matt
- Standard Gloss level ISO 2813: ISO 2813

COLOUR SHADES:

Colour shades are available. On-site tinting exclusively with system related monochrome shades/full-tone colours. When selecting the colour shade for ETICS, observe LRV ≥ 30 .

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

The substrate must be dry, sound, free from chalking, clean and dust-free. Loose parts of existing coatings must be removed mechanically or by high-pressure water jetting. Defective areas must be filled and texture-matched using a suitable repair material. Any sintered layers on new renders must be removed with KEIM Fluat-10 according to instructions. New render areas (repairs) are generally to be pretreated with KEIM Fluat-10 according to the specifications in the Technical Data Sheet. Highly absorbent surfaces are to be primed with KEIM Royalan-Dilution. For repaired substrates as well as for substrates with structural differences or hairline cracks, the base coat should be performed with the higher filled KEIM Soldalit-Grob instead of KEIM Royalan. In case of larger cracks or strong structural differences, a primer coat with KEIM Contact-Plus may be necessary instead of KEIM Soldalit-Grob.

APPLICATION CONDITIONS:

Ambient and substrate temperature ≥ 5 °C during application and drying. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

PREPARATION OF MATERIAL:

Stir up KEIM Royalan thoroughly before application.

CONSUMPTION:

approx. 0,4 kg/m² for two coatings.

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

APPLICATION:

KEIM Royalan can be painted, rolled or sprayed (nozzle: ≥ 431).

Primer coat: Apply KEIM Royalan in the normal case undiluted or depending on the absorbency of the substrate, diluted up to max. 20 % with KEIM Royalan-Dilution.

Final coat: Apply KEIM Royalan undiluted, or 5% diluted with KEIM Royalan-Dilution.

DRYING TIME:

Surface dry after 2 hours at the earliest (at 23 °C and 50% relative humidity) Can be overcoated after 24 hours at the earliest (at 23°C and 50% RH). At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly.

CLEANING OF TOOLS:

Clean immediately with water.

5. PACKAGING

| Container content | Unit of measure | Quantity on pallet | Type of container |
|-------------------|-----------------|--------------------|-------------------|
| 25 | kg | 24 | bucket |
| 5 | kg | 70 | bucket |

6. STORAGE

| max. storage time | Storage conditions |
|-------------------|--|
| 12 months | cool frost-free keep container tightly sealed. |

7. DISPOSAL

For disposal information refer to section 13 of the safety data sheet.

Waste code: 08 01 11 *

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet. EU limit value for this product (Cat. A/c): 40 g/l.

This product contains: 0 - 1 g/l VOC.

9. GENERAL INFORMATION

Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

Mixing with products not part of the system or other foreign additives is not permitted.

10. CERTIFICATES & QUALITY SEALS



The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.