



TECHNICAL DATA SHEET

KEIM ROYALAN®

1. PRODUCT DESCRIPTION

KEIM Royalan is a high performance mineral paint system for use in extreme climatic conditions. KEIM Royalan offers water repellence, vapour permeability and forms a chemical crystalline bond with the substrate.

KEIM Royalan is made using pure inorganic mineral fillers, absolutely lightfast inorganic pigments, additives and potassium silicate binder.

2. FIELD OF APPLICATION

For all mineral, absorbent surfaces, in particular suitable for restoration coatings on repaired and stripped surfaces. Suitable for highly exposed surfaces, glass, ceramics and glazed surfaces.

3. PRODUCT PROPERTIES

KEIM Royalan is a long life exterior silicate-based paint with a modified potassium silicate binder. KEIM Royalan has a high coverage and contains only lightfast inorganic pigments.

- Water vapour permeable
- Lightfast
- Easy to clean
- Non-flammable
- Non-film forming
- Mineral matt
- UV and weather resistant
- Resistant to industrial pollution and acid rain
- Water repellent
- No solvents added
- Resists extreme climatic conditions
- Resists mould and fungal growth

Material characteristics

Specific weight:	approx. 1.4g/cm ³
pH-value:	approx. 11
Lightfastness of colour:	A1
Water vapour transmission rate:	V > 1500g/m ² d

Diffusion equivalent air layer thickness:

$$s_d = 0.01 \text{ m, class I}$$

Liquid water permeability rate (24 h):

$$w = 0.12 \text{ kg/m}^2 \text{h}^{0.5}$$

Gloss at 85°: 0.5 matt

Colour shades

White and in accordance the KEIM Exclusiv Palette with specials available.

4. APPLICATION INSTRUCTIONS

Substrate preparation

All loose, flaking and unstable material must be identified and then thoroughly removed, all surfaces must be thoroughly washed down with clean cold water to remove all surface dirt and dust. When all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, decoration using KEIM Mineral Paints may proceed.

Application

Onto unpainted surfaces KEIM Royalan should be applied as a two-coat system, the first coat to be diluted with 20% by weight KEIM Royalan Dilution and applied by brush or roller, working well into all surfaces, with a minimum period of 12 hours between coats.

For previously painted surfaces KEIM Royalan Grob should be used as a first coat.

Application conditions

Ambient and substrate temperature above 5°C and below 30°C. Do not apply in direct sunlight or onto sun-heated surfaces, nor if it is raining or if there is an immediate likelihood of rain.

Cleaning of tools

Clean immediately after use with water

Consumption

Approx. 0.4kg/m² KEIM Royalan and 0.04lt/m² KEIM Royalan Dilution.

Consumption rates are offered for guideline purposes only and are quoted for smooth rendered surfaces. Actual rates are the responsibility of the applicator. Project specifications should be referred to for specific rates.

5. PACKAGING

5 kg and 25 kg containers

6. STORAGE

Approx. 12 months, if kept cool but frost free in tightly closed containers.

7. DISPOSAL

Dispose completely emptied canisters in accordance with local regulations.

8. SAFETY INSTRUCTIONS

Cover surfaces which are not to be painted, in particular glass, natural stone, ceramics etc. Protect the eyes and skin from splashes. Keep out of reach of children.

Please, refer to the EC Material Safety Data Sheet

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 those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with. We retain the right to make modifications to improve the products or their application. This edition supersedes all earlier editions.

