



## TECHNICAL DATA SHEET

# KEIM AQUAROYAL®-COLOR

## 1. PRODUCT DESCRIPTION

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KEIM AquaROYAL-Color is a silica sol silicate paint according to DIN EN 1062-1 with hydrophilic surface and hydroactive properties in the system structure of the AquaROYAL systems. KEIM AquaROYAL-Color also fulfils the requirements of DIN 18363 Para. 2.4.1 Dispersion silicate paint (org. content below 5 %). KEIM AquaROYAL-Color is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

## 2. FIELD OF APPLICATION

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KEIM AquaROYAL-Color is a system component of the hydroactive AquaROYAL systems and is used as a two-coat facade paint on KEIM AquaROYAL mineral plaster.

## 3. PRODUCT PROPERTIES

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- mineral matt
- Cradle to Cradle Certified®-Certificate Silver
- C2C Certified Material Health Certificate™ Gold
- highly permeable
- microporous
- hydrophilic surface
- hydroactive effect for non-toxic algae prevention
- antistatic, non-thermoplastic
- absolutely UV-resistant
- absolutely lightfast
- fire behaviour: non-flammable (Class A2-s1,d0 as per EN 13501-1 acc. to classification report)
- no biocides added
- no plasticisers added
- no solvents added

### MATERIAL CHARACTERISTICS:

- Density: approx. 1,5 - 1.7 g/cm<sup>3</sup>
- Organic content: < 5 %
- pH value: approx. 11
- Colour fastness (Fb-code pursuant to BFS Leaflet No. 26): A1

### CLASSIFICATION:

- Classification according to: DIN EN 1062-1
- Classification according to VOB: Silicate emulsion paint according to DIN 18363 sec. 2.4.1
- Water vapour diffusion current density (V-value):  $\geq 2000 \text{ g}/(\text{m}^2 \cdot \text{d})$
- Diffusion-equivalent air layer thickness (sd-value):  $\leq 0,01 \text{ m}$
- Diffusion-equivalent air layer thickness class: V1
- Test standard Diffusion equivalent air layer thickness: DIN EN ISO 7783
- Water permeability:  $> 1,0 \text{ kg}/(\text{m}^2\sqrt{\text{h}})$

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- Water permeability rate class: W1
- Test standard Water permeability rate: DIN EN 1062-3
- Gloss level at 85°: matt
- Test standard Gloss level: ISO 2813

### COLOUR SHADES:

Only factory tinting possible. When selecting the colour shade for ETICS, observe LRV  $\geq$  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 Ätzflüssigkeit (lime remover) according to instructions. New render areas (repairs) are generally to be pretreated with KEIM Ätzflüssigkeit (lime remover) according to the specifications in the Technical Data Sheet.

### APPLICATION CONDITIONS:

Ambient and substrate temperature  $\geq$  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 AquaROYAL-Color thoroughly before application.

### APPLICATION:

KEIM AquaROYAL-Color can be painted, rolled or airless sprayed (nozzle:  $\geq$  435 ).

Primer coat: KEIM AquaROYAL-Color always apply undiluted.

Final coat: KEIM AquaROYAL-Color always apply undiluted.

Note: Apply the material generously with a high-pile roller and do not spread it too far, also apply it crosswise. Work quickly wet on wet. Too little material consumption leads to inhomogeneous coating patterns. Note: Thinning the paint material can lead to an inhomogeneous coating pattern.

### DRYING TIME:

Can be overcoated after 12 hours at the earliest (at 23 °C and 50% RH). At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly.

### CONSUMPTION:

approx. 0,5-1,0 kg/m<sup>2</sup> for two coatings.

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

### 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
2.5	kg	80	bucket

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### 6. STORAGE

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

#### STORAGE INFORMATION:

Material residues from opened containers should be refilled into smaller containers to keep the air space in the bucket as low as possible.

### 7. DISPOSAL

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

#### EC WASTE CODE:

Waste code: 08 01 12

### 8. SAFETY INSTRUCTIONS

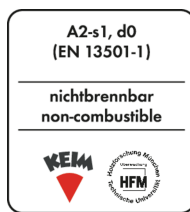
Please, refer to the Material Safety Data Sheet.

### 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



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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.



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