

KEIM AquaROYAL®-Color Hydrophilic sol silicate paint for AquaROYAL-ETIC systems



1. Product description



KEIM AquaROYAL-Color is a sol silicate paint according to DIN EN 1062-1 with a hydrophilic surface and hydro-active properties in the system structure of the AquaROYAL-systems. KEIM AquaROYAL-Color also meets the requirements of DIN 18363, sect. 2.4.1 silicate emulsion paint (organic content < 5%).

2. Field of application

KEIM AquaROYAL-Color is a system component of the hydro-active AquaROYAL-systems and is used as a double-layered facade coat on KEIM AquaROYAL-Mineralputz.

3. Product properties

- Binding agent basis: Combination of silica sol and waterglass
- Hydrophilic surface and hydro-active effect for optimised algae prevention in the AquaROYAL system structure
- Without the addition of biocides
- UV stable, acid resistant, and antistatic
- Highly diffusion permeable, microporous
- Alkaline, no pot preservation
- Pigmented lightfast
- Mineral matt
- Non flammable (class A2 according to DIN 4102/ class A2-s1-d0 according to EN 13501-1, compliant with test certificate)
- Without the addition of solvents and plasticizers

Material characteristics

- Organic content: < 5%
- Spec. weight: approx. 1.6 g/cm³
- pH-value: approx. 11
- Colour fastness: A1 (Colour code according to BFS leaflet no. 26)

acc. to DIN EN 1062-1

- Water vapour diffusion flow density: $V > 2000 \text{ g/m}^2 \text{ d}$
- Diffusion equivalent air layer thickness: $s_d \leq 0.01 \text{ m}$
according to DIN EN ISO 783-2) Class I ($s_d < 0.14 \text{ m}$)

- Water permeability rate (24h): $w > 1.0 \text{ kg/m}^2 \text{ h}^{0.5}$
according to DIN EN 1062-3 Class I (> 0.5)
- Degree of gloss at 85° (according to ISO 2813): 1
matt (≤ 10)

Colour shade:

White and following KEIM Palette exclusiv, luminosity ≥ 30 on smooth plaster, luminosity ≥ 20 on rough and grooved plaster

4. Application instructions

Substrate preparation

The substrate must be sound, dry, clean, and free of dust and grease. Usually KEIM AquaROYAL-Mineralputz can be directly applied without a special pretreatment. Remove any possible sintering layers.

Application

KEIM AquaROYAL-Color can be painted, rolled or sprayed airlessly (nozzle 0.79 mm). Observe a drying time of at least 12 hours between base and top coat.

Base coat:

Always apply KEIM AquaROYAL-Color undiluted.

Top coat:

Always apply KEIM AquaROYAL-Color undiluted.

Please not: A dilution of the paint material can lead to inhomogeneous painting.

Application conditions

Ambient and substrate temperature $> +5^\circ\text{C}$. Do not apply in case of direct sunlight or substrates heated by the sun. Protect coated surfaces during and after application from direct sunlight, wind and rain.

Consumption

Approx. 0.5- 1.0 kg/m² KEIM AquaROYAL-Color (for double coating depending on the structure of the substrate). This consumption value is a reference value. Exact consumption values can only be determined by applying to sample areas on the object to be coated



5. Packaging

5 kg and 25 kg containers

6. Storage

Shelf life is approx. 12 months if kept cool, but frost-free in tightly closed containers. Protect from heat and direct sunlight.

7. Hazardous substances ordinance class

n/a

8. Transport hazard class

n/a

9. Disposal

EC Waste Code No. 08 01 12.
Any residues must be emptied out of containers before recycling.

10. Safety instructions

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics, etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes. Keep out of reach of children.

Product code: M-SK 01

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