TECHNICAL DATA SHEET

KEIM ECOSIL®-ME

1. PRODUCT DESCRIPTION

KEIM Ecosil-ME is a highly durable, universal silicate paint for interior use according to DIN EN 13 300 (also complies with the requirements of DIN 18363 para. 2.4.1, dispersion silicate paint) with pollutant-reducing and odour-neutralising properties. KEIM Ecosil-ME has been awarded Cradle to Cradle Certified® Full Scope Silver, Material Health Gold and Circularity Silver in accordance with Version 5.0.

2. FIELD OF APPLICATION

KEIM Ecosil-ME is particularly suitable for interior wall and ceiling surfaces in heavily frequented areas such as public buildings, hospitals, schools, office areas, restaurants and hotels. Suitable substrates are all mineral plasters, concrete, gypsum plasterboard, glass fabric as well as sound old coatings.

3. PRODUCT PROPERTIES

- Cradle to Cradle Certified® Full Scope Silver (Version 5.0)
- Cradle to Cradle Certified® Material Health Gold (Version 5.0)
- Cradle to Cradle Certified® Circularity Silver (Version 5.0)
- suitable for allergy sufferers
- with photocatalytic effect (test report): turns corrosive gases and odours into non-critical substances like carbon dioxide and water
- QNG compliant
- good covering power
- easy to rework
- fire behaviour: non-flammable (Class A2-s1,d0 as per EN 13501-1 acc. to classification report)
- mould-resistant (resistant against fungal infestation, according to test certificate)
- scrub-resistant
- disinfectant-resistant
- no solvents added
- no plasticisers added
- no preservatives added

MATERIAL CHARACTERISTICS:

– Density	approx. 1.4 g/cm³ - 1.7 g/cm³
– Organic content	< 5 %
– pH value	approx. 11

CLASSIFICATION:

– Classification according to	EN 13300
– Classification according to VOB	Silicate emulsion paint according to DIN 18363 sec. 2.4.1
– Diffusion-equivalent air layer thickness (sd value)	≤ 0,01 m
– Standard Diffusion equivalent air layer thickness	DIN EN ISO 7783

– Resistance to wet abrasion	R-Class 1
– Standard Wet Abrasion Resistance	EN ISO 11998
– Covering power (Contrast ratio)	H10-Class 1
– Yield of covering capacity (contrast ratio)	6.5 m^2/L
– Standard Hiding power	ISO 6504-3
– Gloss level	G4 – dull matt (measuring angle 85°)
– Standard Gloss level	ISO 2813
– Maximum particle size	fine
– Standard Maximum particle size	EN 1524

COLOUR SHADES:
White and colour shades are produced exclusively with purely mineral, lightfast pigments. Not available in solid colours. Tinting with KEIM Colour-Concentrate.

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:
The substrate must be load-bearing, sound, dry, clean and free from dust and grease. Sanding and highly absorbent substrates are pre-treated with KEIM Soliprim or KEIM Spezial-Fixativ. In difficult light conditions (glancing light), a primer coat of KEIM Innoprim or a pre-primer of KEIM Soliprim optimises surface homogeneity and extends the open time of subsequent coats. It is important to ensure that the substrate is properly prepared, that suitable tools are used and that extra care is taken during application.

Non-suitable substrates:
substrates with salt efflorescences; lacquered surfaces; wood substrates

APPLICATION CONDITIONS:
The air and substrate temperature during application and drying must be ≥ 5 °C.

MATERIAL PREPARATION:
KEIM Ecosil-ME must be stirred thoroughly before application.

CONSUMPTION:
approx. 0,25 L/m^2 for two coatings.
The information on material consumption is a guide for smooth substrates. Exact consumption figures must be determined by carrying out test areas.

PROCESSING:
KEIM Ecosil-ME can be brushed, rolled or sprayed (nozzle ≥ 423).
Primer coat: Apply KEIM Ecosil-ME undiluted or diluted with max. 10 % KEIM Spezial-Fixativ.
Final coat: Apply KEIM Ecosil-ME undiluted.

TOP COAT:

PAINT STRUCTURE:

DRYING TIME:
Can be overcoated after 6 hours at the earliest (at 23°C and 50% RH). At higher relative humidity, greater layer thicknesses or lower temperatures, the drying time is extended accordingly.

CLEANING OF TOOLS:
Clean immediately with water.

5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
12.5	L	32	bucket
5	L	70	bucket

6. STORAGE

Maximum storage time	Storage conditions
12 months	cool frost-free keep container tightly sealed. protected from heat and direct sun.

7. DISPOSAL

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

Waste code: 08 01 12

8. SAFETY INSTRUCTIONS

Refer to the safety data sheet. EU limit value for this product (Cat. A/a): 30 g/l.
This product contains: 0 - 1 g/l VOC.

GIS code: BSW 40

9. GENERAL INFORMATION

Cover surfaces not to be treated, particularly glass, ceramics and natural stone. Splashes on surrounding surfaces or traffic areas must be immediately diluted with plenty of water and removed.
Mixing with products from other systems or other external 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.

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