TECHNICAL DATA SHEET

KEIM ECOSIL®-ME

1. PRODUCT DESCPRIPTION

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 is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

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, hotels and for rooms where food is stored. Suitable substrates are all mineral plasters, concrete, gypsum plasterboard, glass fabric as well as sound old coatings. KEIM GW-Primer is recommended as a first coat to equalise different absorbencies and on gypsum plasterboard. Highly absorbent or sanding substrates are pre-treated with KEIM Granital-Dilution. For coloured coats on gypsum plasterboard surfaces and substrates with gypsum stain filler, an undiluted first coat of KEIM GW-Primer is essential (alternative coating build-up for particularly intensive colour shades on gypsum plasterboard and substrates with gypsum stain filler, two coats of KEIM Optil). KEIM GW-Primer should not be used on pure gypsum plasters (P IV a,b and P Va).

Not suitable for:
wood substrates
lacquered surfaces
substrates with salt efflorescences

3. PRODUCT PROPERTIES

- easy to rework
- good covering power
- C2C Certified Material Health Certificate™ Gold
- Cradle to Cradle Certified®-Certificate Silver
- suitable for allergy sufferers
- suitable for food products
- with photocatalytic effect (test report): turns corrosive gases and odours into non-critical substances like carbon dioxide and water
- QNG-konform
- mould-resistant (resistant against fungal infestation, according to test certificate)
- scrub-resistant
- disinfectant-resistant
- fire behaviour: non-flammable (Class A2-s1,d0 as per EN 13501-1 acc. to classification report)
- no solvents added
- no plasticisers added
- no preservatives added

MATERIAL CHARACTERISTICS:

– Density:	approx. 1,4 - 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
– Wet abrasion resistance:	Class 1
– Test standard Wet Abrasion Resistance:	EN ISO 11998
– Contrast ratio (covering power):	Class 1
– Yield of contrast ratio (covering capacity):	6.5 m²/L
– Standard Hiding power:	ISO 6504-3
– Gloss level at 85°:	dull matt
– Standard Gloss level:	ISO 2813
– Maximum particle size:	fine
– Standard Maximum particle size:	EN 1524

COLOUR SHADES:
White, colour shades only with purely mineral, light-resistant pigments. Not available in solid colours. Tinting with KEIM colour concentrates.

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:
Optimisation of the surface homogeneity of the subsequent coats, especially under difficult lighting conditions, can be achieved by pre-treatment with KEIM Granital-Dilution. In case of glancing light conditions, ensure adequate substrate preparation, suitable tools and increased care during application.

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

PREPARATION OF MATERIAL:
Stir up KEIM Ecosil-ME thoroughly before application.

CONSUMPTION:
approx. 0,25 L/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 Ecosil-ME can be brushed, rolled or sprayed (nozzle ≥ 423).
Primer coat: Apply KEIM Ecosil-ME undiluted or diluted with max. 10 % of Spezial-Fixativ.
Final coat: Apply KEIM Ecosil-ME undiluted.

DRYING TIME:
Can be overcoated after 6 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
12.5	L	32	bucket
5	L	70	bucket
2.5	L	80	bucket

6. STORAGE

max. 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

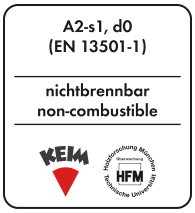
Please, refer to the Material Safety Data Sheet. EU limit value for this product (Cat. A/a): 30 g/l.
This product contains: 0 - 1 g/l VOC..

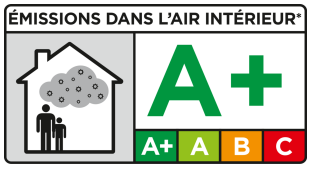
GISCODE: BSW 40

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.

KEIM MINERAL PAINTS LTD
Santok Building / Deer Park Way, Donnington Wood / Telford / Shropshire TF2 7NA
Tel. +44 1952 231 250 / Fax +44 1952 231 251
www.keim.com / sales@keimpaints.co.uk