



SUSTAINABILITY DATA SHEET

KEIM INNOSTAR®

1. PRODUCT DESCRIPTION

KEIM Innostar is an ultra-opaque, high-yield, healthy premium sol-silicate paint for interior use in accordance with DIN EN 13 300. KEIM Innostar also complies with the requirements of DIN 18 363, 2.4.1 "silicate emulsion paint". KEIM Innostar is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold. For a detailed product description, as well as processing information, please refer to the Technical Data Sheet on www.keim.com.

2. INGREDIENTS

Declaration of ingredients (according to VdL-RL 01) (VdL: German Paint and Printing Ink Association)	Silica sol, polymer, titanium dioxide, inorganic colour pigments (depending on colour), mineral fillers, water, water repellent agents, thickening agents, defoamers, stabilisers
Declaration of ingredients (according to natureplus)	Full declaration in accordance with the "natureplus®" award guideline: Silicate and calcite fillers, titanium dioxide, silica sol, water, polyacrylate, water repellent, thickener, stabilisers, wetting agent, defoamer. Origin of mineral fillers: Germany and/or Austria.
Organic content (according to DIN 18363 section 2.4.1)	< 5 %
VOC content (according to VdL directive 01)	EU limit value for this product (Kat. A/a): 30 g/l. This product contains: 0 - 1 g/l VOC.
solvent content (according to VdL-RL 01) (VdL: German Paint and Printing Ink Association)	Not included (no recipe component)
Aromatic hydrocarbons	Not included (no recipe component)
Plasticiser content (according to VdL-RL 01) (VdL: German Paint and Printing Ink Association)	Not included (no recipe component)
Hazardous ingredients (according to CLP regulation)	Refer to section 3 of safety data sheet (link under section: Further documents)
Active ingredients for coating protection (film preservative, product type 7 as per BPR)	Not included (no recipe component)
Active ingredients for storage protection (film preservative, product type 6 as per BPR)	Not included (no recipe component)
Lead, cadmium, chromium VI, arsenic, mercury	Not included (no recipe component)

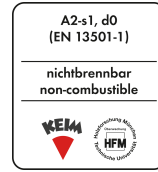
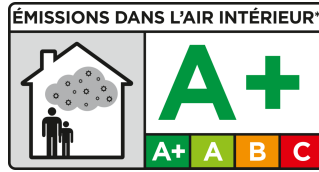
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CMR substances of categories 1A and 1B (according to CLP regulation)	Not included (no recipe component)
PBT and vPvB substances (according to REACH regulation)	Not included (no recipe component, see section 2 of Safety Data Sheet)
Ozone-depleting substances (according to regulation (EC) Nr. 1005/2009)	Not included (no recipe component)
Formaldehyde	< 5 µg/m ³ (LCI (lowest concentration of interest) = 100 µg/m ³) (28 days)
Per- and polyfluorinated alkyl compounds (PFAS) (according to REACH regulation)	Not included (no recipe component)
Halogenated organic compounds	Refer to section 12 of safety data sheet (link under section: Further documents)
Compliance with the limitation of emissions of the titanium dioxide industry (according to directive 92/112/EEC or directive 2010/75/EU)	Yes
QNG-requirements (according to QNG version 1.3 in Attached Document 313)	Meets the QNG requirements for pollutant prevention in the building product group interior paints: solvent-free, formaldehyde-free and plasticiser-free in accordance with VdL-RL 01.
Cradle to Cradle Restricted Substances List (according to Guideline C2CPII Version 4.1)	Complies with the Cradle to Cradle list of restricted substances

3. TEST REPORTS / EXPERT REPORTS / CERTIFICATIONS / LOGOS

Test reports	On demand
Expert opinion	Environmental product declaration (EPD) (link under section: Further documents)
Product code / GISCODE (according to VdL directive 01)	
MAL code	

Certification / Logos



4. INFORMATION FOR BUILDING CERTIFICATION AS PER DGNB

Product group (ENV 1.2)	Coatings mainly on mineral substrates indoors as well as on wallpapers, non-woven material, gypsum plasterboards etc.
VOC content (according to VdL directive 01)	≤ 1 g/l
Dilutability with water (according to VdL directive 01)	Yes
Product-specific life cycle assessment values (ENV 1.1 and ENV 2.1)	According to EPD
Quality level (ENV 1.2)	<p>DGNB-Version 2018: Coatings on mainly mineral substrates in interior spaces: Complies with quality level 4 – solvent-free and plasticiser-free according to VdL directive 01.</p> <p>DGNB-Version 2023: Coatings on mainly mineral substrates in interior spaces: Complies with quality level 4 – solvent-free, plasticiser-free and preservative-free according to VdL directive 01.</p> <p>The product complies with RAL-UZ 102 in terms of VOC content.</p>
Product-specific life cycle (ECO 1.1)	20 years (according to BNB)
Safety and risks of failure (SOC 1.7)	No negative influence, since no halogenes contained
Cleaning instructions (PRO 1.5, PRO 2.2)	Refer to technical data sheet (link under section: Further documents)

5. INFORMATION ON BUILDING CERTIFICATION IN ACCORDANCE WITH BNB (VERSION 2015)

General requirements	Declaration of SVHCs present in concentrations > 0.1% – See Section 15 of the SDS
Quality level	Coatings (interior wall and ceiling paints) for predominantly mineral surfaces in interior areas: concrete, masonry, mortar, filler, plaster, as well as plasterboard, wallpaper, non-woven wallcoverings, etc.: Complies with Quality Level 2 – solvent-free and plasticiser-free in accordance with the definition in VdL-RL01.

6. INFORMATION ON COMPLIANCE WITH LEED VERSION 4.1

Product group (EQ4.2)	Flat Topcoat
VOC (as per SCAQMD Rule 1113, Architectural Coatings, rules in effect on February 5, 2016)	0 - g/l (limit value < 50 g/l)
VOC limit met	Yes
Recycling rate (from post-consumer sources) (MR4)	KEIM Innostar can achieve the service life of the building components. KEIM Innostar does not have a real after-use phase. The final disposal is carried out in conjunction with the building components via building rubble. If it is pure building rubble, recycling takes place in accordance with national regulations. Normally, building rubble is crushed and returned to the economic cycle as a substitute for fillers (road construction, concrete).
Recycling rate (from production-relevant sources) (MR4)	0 %
Fast renewable raw materials (MR 6)	0 %
Regional materials (MR 5)	No information
Production site (MR 5)	KEIMFARBEN GMBH, Keimstraße 16, D-86420 Diedorf, Tel. +49 821 4802-0

7. INFORMATION FROM C2C CERTIFIED® CERTIFICATION

The Cradle to Cradle Certified® certification requires, amongst other things, the use of environmentally friendly, healthy and recyclable materials, climate-friendly and responsible production processes, and the use of renewable energy.

Heavy metals in mineral fillers (DIN EN 71-3)	Limits values are in compliance with C2C Certified ® Standard 3.1
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Radioactivity in mineral fillers

(according to directive 2013 / 59 / Euroatom)

Activity concentration index in the product < 1

Compliant with the C2C Certified®

Banned List

(according to directive of C2C PII)

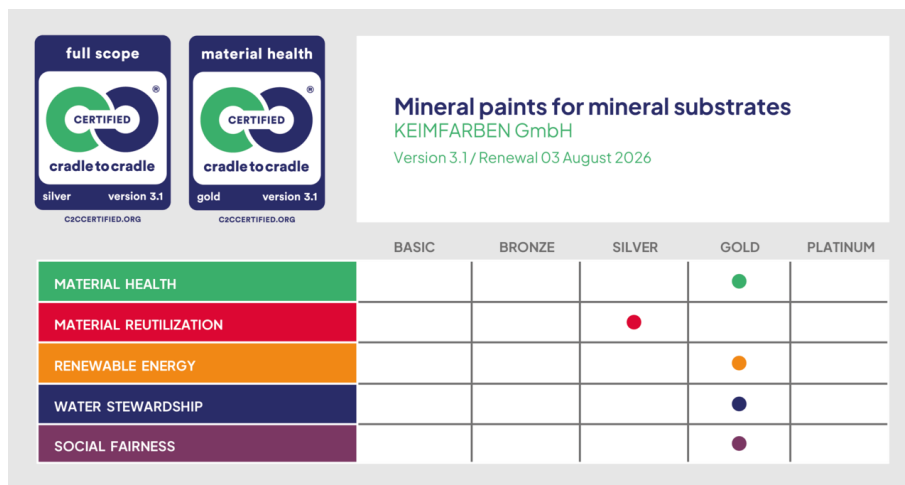
Yes

CMR substances

(according to directive of C2C PII)

Not included (no recipe component)

C2C Scorecard



8. MANAGEMENT SYSTEMS AND CORPORATE CERTIFICATIONS

Quality and environmental management

The manufacturing/marketing company is certified according to DIN EN ISO 9001 and DIN EN ISO 14001. The company performs a regular energy audit according to DIN EN 16247-1.

9. SAFETY INSTRUCTIONS

See materials safety data sheet

(link under section: Further documents)

10. FURTHER DOCUMENTS

The following documents can be found at <https://www.keim.com/>

The concept of sustainability shapes and guides our collective business activities. Our conviction that mineral-based building products offer added value reflects this principle. The character of our company is shaped by the spirit of its founder. For almost 150 years, we have remained steadfastly true to A. W. Keim's guiding principle of looking carefully to the future and to future generations. With this document, we aim to help you better assess our products. Further information on sustainability can be found at: <https://www.keim.com/de-de/nachhaltigkeit>

The information is based on the requirements of the product data sheet of VDL Guideline 11 (4th revision). Further details are additional information.

This data sheet has been compiled on the basis of the latest state of the art and our experience. In view of the wide range of requirements, users remain responsible for verifying, at their own discretion, whether our assessment meets their specific needs and requirements. This data sheet is valid only in its latest version and in conjunction with the current technical information and the safety data sheet. Please check our website to ensure that this version is up to date.



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