TECHNICAL DATA SHEET

KEIM STUCASOL®

1. PRODUCT DESCRIPTION

Ready-to-use sol-silicate plaster with unique binder combination for highest quality requirements and colour brilliance, even without additional coating. KEIM Stucasol 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

For interior and exterior use as a top coat for mineral and organic substrates and as a finishing coat for KEIM thermal insulation composite systems.

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)
- matt finish
- homogenous surface appearance
- water-repellent
- permeable
- for interior and exterior use
- ready to use
- good application properties
- easy to apply
- fire behaviour: A2-s1,d0
- lightfast
- weather-resitant
- no biocides added

MATERIAL CHARACTERISTICS:

– Density	approx. 1.5 g/cm³ - 1.8 g/cm³

CLASSIFICATION:

– Adhesive tensile strength	≥ 0,3 N/mm²
– Standard Adhesive tensile strength	DIN EN 1015-12
– Fracture pattern Adhesive tensile strength	A,B,C
– Standard Diffusion equivalent air layer thickness	DIN EN ISO 7783
– Water permeability	≤ 0,1 kg/(m²√h)
– Water permeability rate class	W3
– Standard Water permeability rate	DIN EN 1062-3
– Water vapour diffusion flux density (V-value)	≥ 150 g/(m² · d)

– Diffusion-equivalent air layer thickness class	V1

COLOUR SHADES:
White; colour shades are produced exclusively using purely mineral, lightfast pigments. KEIM Stucasol can be tinted to match all standard colour ranges via the KEIM Lokale Farbwerkstatt® using KEIM PPF-Technologie®. Please always check the colour shade for accuracy before application. Only use colour shades from a single tinting batch within a single surface area.

AVAILABLE COLOUR SWATCHES:
KEIM Palette Exclusiv

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:
The substrate must be solid, dry, clean, sound and free from residues that may impair adhesion. Strongly sanding or unevenly absorbent surfaces must be primed with KEIM Soldalit-Fixativ. Observe the Technical Data Sheet of the primer with regard to application and dilution. For newly created, repaired or unevenly textured surfaces or under intense colour tones, it is recommended to prepaint with KEIM Stucasol-Fondo} to match the colour (please refer to the Technical Data Sheet).

Non-suitable substrates:
gypsum renders; wood substrates; horizontal and inclined surfaces exposed to weathering; lime-gypsum renders; lacquered surfaces; metallic substrates; non-wettable substrates; plasto-elastic coatings; aerated concrete installation components; substrates with salt efflorescences; saponifiable existing substrates; oil containing substrates

APPLICATION CONDITIONS:
Ensure the ambient and substrate temperatures are ≥ 8 °C during application and drying. Do not apply in direct sunlight or onto substrates heated by the sun. Protect surfaces from direct sunlight, wind and rain during and after application.

PREPARATION OF MATERIAL / MIXING & CONVEYING:
Working consistency of KEIM Stucasol from can be adjusted with KEIM Soldalit-Fixativ to max. 150 ml per container . Excessive thinning will impair the properties of the plaster (e.g. colour shade, texture). Do not dilute with water. KEIM Stucasol Stir with a slow-running agitator before use. KEIM Stucasol Can be applied by machine. Mortar pumps with variable flow rates are suitable for simple application. If an even spray pattern is to be created, a mortar pump with infinitely variable flow and electric control must be selected. We recommend spraying the surface twice wet on wet with a low application volume. The size of the nozzle should be approx. three times the selected grain size. The hose length should not exceed 20 m.

CONSUMPTION:
K 1.0 – approx. 1.5 kg/m²; K 1.5 – approx. 2.3 kg/m²; K 2.0 – approx. 3.0 kg/m²; K 3.0 – approx. 3.6 kg/m²
The information on material consumption is a guide for smooth substrates. Exact consumption figures must be determined by carrying out test areas.

PROCESSING:
Apply with a rustproof steel trowel, smooth to grain thickness and rub in as desired, structuring as sharply as possible. Working technique and tools determine the result. To avoid build-up, always work wet-on-wet. Always apply only the same batch no. in one area. When applying by machine, the KEIM Stucasol can be textured with a trowel or left to stand.

BONDING:

MOISTURE PROTECTION:

TOP COAT:
When used as a top coat, allow at least 2 days' curing time before painting.

POST-TREATMENT:
After application, protect surfaces from wind and rain by suitable means.

FINISHING:
Can be painted over with diffusion-open coating systems, e.g. KEIM Soldalit. Observe the standing time.

SERVICE LIFE:
When used as a top coat, allow at least 2 days' curing time before painting. At least 1 day per mm of plaster thickness (depending on temperature and relative humidity).

CLEANING OF TOOLS:
Clean immediately with water.

5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
25	kg	24	bucket

6. STORAGE

Maximum storage time	Storage conditions
12 months	dry cool frost-free

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.

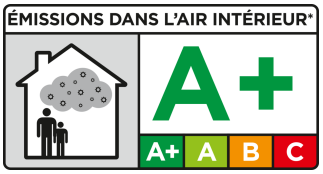
GIS code: BSW 10

9. GENERAL INFORMATION

Under the recommended application conditions, the plaster dries uniformly and with a clearly visible textured grain.
To improve the stability of the board, a subsequent coat of paint is not necessary.
Under unfavourable weather conditions, coloured plasters may dry with cloudiness or exhibit hairline cracking.
This is not a technical defect and can be remedied by a covering or glazing coat, depending on the desired result.

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.

KEIMFARBEN GMBH
Keimstraße 16 / 86420 Diedorf / Tel. +49 821 4802-0
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 35456 676-0
www.keim.com / info@keimfarben.de