



## TECHNICAL DATA SHEET

# KEIM SOLDALIT®-ARTE

## 1. PRODUCT DESCRIPTION

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KEIM Soldalit-arte is a titanium dioxide-free facade paint based on sol-silicate. The formulation without titanium dioxide and with absolutely lightfast, inorganic pigments and mineral fillers emphasises the original character and plastic structure of the substrate and results in coatings with special colour depth and plasticity. The binder combination of silica sol and water glass allows silicate coats not only on mineral but also on a wide range of organic substrates and without additional bonding bridges. KEIM Soldalit-arte satisfies the requirements of DIN 18363 para. 2.4.1 (Dispersion silicate paint). KEIM Soldalit-arte is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

## 2. FIELD OF APPLICATION

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KEIM Soldalit-arte is suitable for painting load-bearing, organic and mineral substrates, as well as mixed substrates. KEIM Soldalit-arte Due to the absence of the homogenising white pigment titanium dioxide, it is suitable for renovating old buildings and listed buildings that are to reproduce a "historical colour". On the other hand, it is recommended for use in new buildings and modern architecture where special attention is to be paid to the colourfulness and colour effect.

Not suitable for:

horizontal and inclined surfaces exposed to weathering; wood substrates; plasto-elastic coatings; saponifiable existing substrates; non-wettable substrates

## 3. PRODUCT PROPERTIES

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- universally applicable
- C2C Certified Material Health Certificate™ Gold
- permeable
- highly water-repellent
- microporous
- antistatic, non-thermoplastic
- highly weather-resistant
- absolutely lightfast
- anti-fungal and anti-algae thanks to ideal moisture balance
- acid-proof
- fire behaviour: non-flammable
- no solvents added
- no plasticisers added
- titanium dioxide-free

### MATERIAL CHARACTERISTICS:

- |   |                                     |
|---|-------------------------------------|
| - Density:  | approx. 1.4 - 1.6 g/cm <sup>3</sup> |
| - Organic content:  | < 5 %                               |
| - pH value:   | approx. 11                          |
| - Colour fastness (Fb-code pursuant to BFS Leaflet No. 26): | A1                                  |

### CLASSIFICATION:

- |                                    |   |
|------------------------------------|---|
| - Classification according to:     | DIN EN 1062-1   |
| - Classification according to VOB: | Silicate emulsion paint according to DIN 18363 sec. 2.4.1 |

## TECHNICAL DATA SHEET – KEIM SOLDALIT®-ARTE

- Diffusion-equivalent air layer thickness (sd-value):	≥ 0,01 m
- Diffusion-equivalent air layer thickness class:	V1
- Test standard Diffusion equivalent air layer thickness:	DIN EN ISO 7783
- Water permeability:	< 0,1 kg/(m <sup>2</sup> √h)
- Water permeability rate class:	W3
- Test standard Water permeability rate:	DIN EN 1062-3
- Gloss level at 85°:	matt

### COLOUR SHADES:

White and colour shades only with purely mineral, light-resistant pigments. Natural white pigmented with Lithopone, raw white (unpigmented). Can be tinted on the building site exclusively with KEIM Soldalit monochrome shades. The optical impression of the individual colour shade is naturally influenced by the respective substrate. Therefore, and due to the titanium-free formulation, slight colour deviations are possible in comparison to the colour chart or in comparison of different substrates to each other, depending on the substrate and colour shade. When selecting the colour shade for ETICS, observe LRV ≥ 30.

## 4. APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION:

The substrate must be dry, sound, free from chalking, clean and dust-free. Loose parts of existing coatings must be removed mechanically or by high-pressure water jetting. Defective areas must be filled and texture-matched using a suitable repair material. Any sintered layers on new renders must be removed with KEIM Ätzflüssigkeit (lime remover) according to instructions. New render areas (repairs) are generally to be pretreated with KEIM Ätzflüssigkeit (lime remover) according to the specifications in the Technical Data Sheet. Strongly absorbing surfaces must be primed with KEIM Soldalit-Fixativ. Please, refer to the Technical Data Sheet of the primer regarding application.

In case of larger cracks or strong structural differences, a primer coat with KEIM Contact-Plus might be necessary instead of KEIM Soldalit-arte.

### APPLICATION CONDITIONS:

Ambient and substrate temperature ≥ 5 °C during application and drying. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

### PREPARATION OF MATERIAL:

Stir up KEIM Soldalit-arte thoroughly before application.

### APPLICATION:

KEIM Soldalit-arte can be painted, rolled or airless sprayed (nozzle: ≥ 435 ). Processing with the brush is particularly recommended.

Primer coat: Apply KEIM Soldalit-arte in the normal case undiluted or depending on the absorbency of the substrate, diluted up to max. 5 % with KEIM Soldalit-Fixativ.

Final coat: Apply KEIM Soldalit-arte undiluted.

### DRYING TIME:

Can be overcoated after 12 hours at the earliest (at 23 °C and 50% RH). At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly.

### CONSUMPTION:

approx. 0,45 kg/m<sup>2</sup> for two coatings.

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

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### CLEANING OF TOOLS:

Clean immediately with water.

## 5. PACKAGING

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Container content	Unit of measure	Quantity on pallet	Type of container
18	kg	32	bucket
5	kg	70	bucket

## 6. STORAGE

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max. storage time	Storage conditions
12 months	cool frost-free keep container tightly sealed.

### STORAGE INFORMATION:

Material residues from opened containers should be refilled into smaller containers to keep the air space in the bucket as low as possible.

## 7. DISPOSAL

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

### EC WASTE CODE:

EC WASTE CODE: 08 01 12

## 8. SAFETY INSTRUCTIONS

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Please, refer to the Material Safety Data Sheet.

## 9. GENERAL INFORMATION

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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

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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 / Fax +49 821 4802-210  
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 35456 676-0 / Fax +49 35456 676-38  
[www.keim.com](http://www.keim.com) / [info@keimfarben.de](mailto:info@keimfarben.de)