



TECHNICAL DATA SHEET

KEIM SOLDALIT® ME

1. PRODUCT DESCRIPTION

KEIM Soldalit ME is a sol silicate photocatalytic exterior mineral paint.

KEIM Soldalit ME is a highly specialised mineral paint system based on a binding agent combination of silica sol and potassium silicate, for use on exterior surfaces. This combination allows the application of mineral coatings not only onto mineral, but also on a variety of previously painted surfaces directly without the use of any stabilising agents.

Offers water repellency, vapour permeability and forms a chemical crystalline bond with the substrate. KEIM Soldalit ME is made using pure inorganic mineral fillers, earth oxide colour pigments, potassium silicate and silica sol binders.

Photocatalytic paint uses light energy to neutralise pollution, the catalyst is not used up in the reaction and will continue to react for the life of the paint. The reaction converts Nitrogen Oxides and other harmful pollutants including formaldehyde and acetaldehyde into harmless nitrates.

2. FIELD OF APPLICATION

For all mineral, absorbent surfaces, in particular suitable for restoration coatings on repaired and stripped surfaces, suitable for application onto previously painted surfaces.

3. PRODUCT PROPERTIES

Binder: combination of silica sol and water glass (sol-silicate)

- Multipurpose application
- Photocatalytic action
- Reduces toxic gases (e.g. NO_x, VOCs) and organic pollutants
- UV and acid resistant, anti-static
- High weathering resistance

- Alkaline
- Non-flammable
- Lightfast
- Mineral matt
- Water vapour permeable, microporous
- Non-film forming
- Highly water repellent
- No solvents and plasticisers added
- Resists algal and fungal growth

Material characteristics

Specific Weight: approx. 1.6g/cm³

pH Value: approx. 11

Colour fastness: A1

According to Din EN 1062-1

Water vapour diffusion density:

$$V \geq 2000\text{g/m}^2\text{d}$$

Diffusion-equivalent air layer thickness:

$$s_d \leq 0.01\text{m}$$

Water permeability rate (24 h):

$$w < 0.1\text{kg}/(\text{m}^2\text{h}^{0.5})$$

Gloss at 85°: 1.5

Colour shades

White and in accordance with the KEIM Exclusiv and KEIM Avantgarde swatches, with specials available. No monochrome shades available.

4. APPLICATION INSTRUCTIONS

Substrate preparation

All loose, flaking and unstable material must be identified and then thoroughly removed, all surfaces must be thoroughly washed down with clean cold water to remove all surface dirt and dust. When all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, decoration using KEIM Mineral Paints may proceed.

Highly absorbent or friable substrates should be treated with KEIM Soldalit Fixativ.

Application

KEIM Soldalit ME should be applied as a two coat undiluted system. KEIM Soldalit ME can be applied by brush, roller, or air-less spray with a minimum period of 12 hours between coats.

Application conditions

Ambient and substrate temperature above 5°C and below 30°C. Do not apply in direct sunlight or onto sun-heated surfaces, nor if it is raining or if there is an immediate likelihood of rain.

Consumption

Approx. 0.45kg/m² KEIM Soldalit ME for two coats.

Consumption rates are offered for guideline purposes only and are quoted for smooth rendered surfaces. Actual rates are the responsibility of the applicator. Project specifications should be referred to for specific rates.

Cleaning of tools

Clean immediately after use with water

5. PACKAGING

5 kg and 25 kg containers

6. STORAGE

Approx. 12 months, if kept cool but frost free in tightly closed containers.

7. DISPOSAL

EC Waste Code No. 08 01 12

Any residues must be emptied out of containers before recycling.

8. SAFETY INSTRUCTIONS

Cover surfaces which are not to be painted, in particular glass, natural stone, ceramics etc. Protect the eyes and skin from splashes. Keep out of reach of children.

Please, refer to the EC Material Safety Data Sheet

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 those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with. We retain the right to make modifications to improve the products or their application. This edition supersedes all earlier editions.

