

# KEIM Mineral Paints



**Think Paint, Think Keim**  
**Keim Mineral Paints - ecological, economical, sustainable**

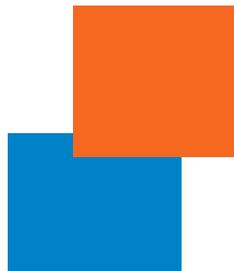
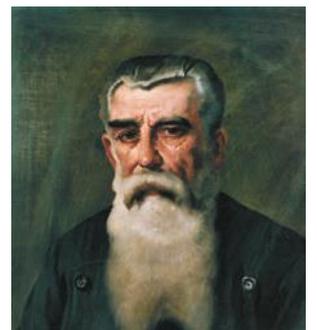


## KEIM – the mineral choice

The Keim mineral paint system, originally developed to simulate the Italian lime fresco finish in the harsher Northern European climate, is over 130 years old. The Keim system is used extensively around the world, with a number of buildings of that age still decorated with the original Keim system.

The scientist Adolf Wilhelm Keim successfully combined water glass (potassium silicate solution) with natural earth oxide colour pigments to produce a paint that both penetrates and chemically reacts with the mineral substrate onto which it is applied. Keim paints become an integral part of the surface, whereas oil based paints merely form a skin on the surface.

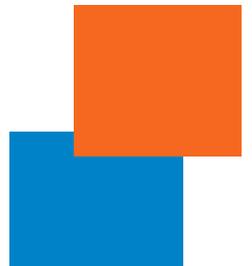
Keim mineral paints are natural, water-borne liquid silicate paints which produce an extremely durable, colourfast, sustainable protective finish with high vapour permeability, which work in harmony with the environment.





Founded upon over 130 years of KeimFarben's philosophy and experience, Keim Mineral Paints was established in the UK in 1987. Offering a full range of Keim products encompassing pre-treatments, external and internal paints, renders, concrete repair systems, and mineral restoration materials, Keim Mineral Paints are the UK's acknowledged experts in mineral paints, renders and repair systems.

Keim Mineral Paints provide technical service and support encompassing project specifications, application and colour advice to a diversity of projects, from historic to modern, restoration to new build, private and public. To date, Keim mineral paints have been applied on over 15 million square metres of surfaces within the UK.



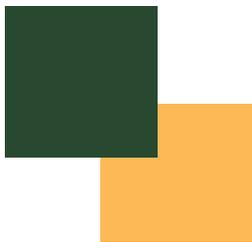


## KEIM – the professional choice

**Environmentally Friendly** - Keim mineral paints are water borne, odourless, non-toxic and solvent free, manufactured with natural ingredients using a low energy manufacturing process. Keim mineral paints contain neither solvents nor any petro-chemical derivatives, are inherently non-combustible and do not give off any toxic gases. Over their entire life cycle from raw material extraction to production, processing and ultimate disposal, mineral paints have an excellent environmental profile.

**Durable** - Mineral paint systems are based upon penetration (silicification) of the binder into the substrate. A strong, permanent bond is created between the paint and the underlying substrate (e.g. render, natural stone, concrete). This potassium silicate binder is highly resistant to weathering, ensuring an extremely long-life protective finish, reducing the frequency of re-decoration cycles. Keim mineral paints do not flake and the binder does not disintegrate under the effect of UV light. They are resistant to acid rain and industrial pollution.

**Cleanliness** - Keim mineral paints have no residual electrostatic charge, unlike oil based paints, and therefore do not attract dust. Over time they remain cleaner than oil based paints. The silicate structure is highly stable and able to resist acid and alkali attack, while the inherent alkaline nature of Keim mineral paints hinders the growth of fungi and algae spores.



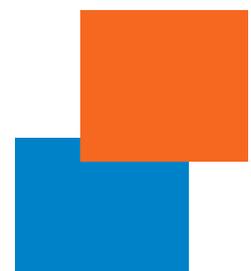


**Colour stability** - Keim mineral paints contain exclusively high-quality, lightfast, mineral pigments and binders which exhibit the greatest UV resistance of all paint systems, and are absolutely weather-resistant. All Keim colours are unaffected by the action of weathering and UV radiation, ensuring no colour fade with the passage of time. Having a bright matt appearance, the crystal structure of Keim mineral paints gives a high level of light reflectance compared to oil based film forming paints of a similar colour.



**Incombustible** - Keim mineral paints are inherently non combustible, do not support the spread of flame and give off no noxious emissions due to their inorganic composition. Mineral paints are therefore ideal for use in safety critical public areas such as underground stations and tunnels, airports, schools and flats.

**Breathable** - The micro-crystalline nature of the Keim coating system creates finite spaces between adjacent crystals, these voids are large enough to allow the free passage of vapour, but small enough to prevent the ingress of driven rain. This imparts the Keim mineral paint system with high water vapour permeability. This high breathability enables humidity contained in building structures to be quickly released unhindered into the environment, avoiding moisture build up between coating and substrate.





## External Paint Systems

**Keim Granital** - a classic mineral, matt finish silicate based paint for use on all forms of mineral substrates.

**Keim Soldalit** - a highly developed multi purpose exterior sol silicate paint system based on a combination of silica-sol and potassium silicate binding agents, universally suitable for application on to organic, mineral and mixed substrates, combining the benefits of a classic mineral paint with simplicity of application.

**Keim Royalan** - a mineral silicate based paint system developed to withstand harsh climatic conditions, ideally suited for use in exposed locations and those subject to continual pollutants and contaminants.

**Keim Concretal** - effective protection for concrete while retaining its concrete character. The Keim concretal system comprises mineral based concrete repair, decoration and protection materials, significantly reduces the rate of carbonation of concrete, providing a long life decorative system for mineral protection.

**Keim Concretal Lasur** - a water repellent low pigmentation silicate colour wash, for protection against weathering, which acts as a stain that penetrates the surface of concrete, equalising colour variations, whilst maintaining the structure and appearance of concrete.

**Keim Lotexan** - a clear dust suppressant and water repellent siloxane based treatment for use on alkaline mineral substrates such as concrete and new cementitious renders.

**Keim Ecotec** - a solvent free vapour permeable water repellent coating for use on mineral substrates.





## Internal Paint Systems

**Keim Ecosil ME** - A high performance, environmentally friendly mineral paint for interior use. Silicate paint which optimises air quality, using photo-catalytic pigments to reduce noxious gasses and odours by transforming them into natural substances.

**Keim Optil** - a premium quality sol - silicate paint specifically formulated for elegant interior applications, giving intense, lightfast colour shades.

## Renderers and Repair Materials

**Keim Universal Render** - A ready to use renovation and thin layer wall render, based on hydraulic lime and white cement with sand and mineral fibre fillers, for use on all mineral substrates, both interior and exterior.

**Keim Restauro Stone Repair System** - A system for restoration of natural stone: cleaning, consolidating, reinstating, water repellent impregnation, and coating.

**Keim Restauro Lasur** - A water repellent, low pigmentation silicate colour wash for protection against weathering, which acts as a stain that penetrates the surface of stone, equalising colour variations, whilst maintaining the structure and appearance of stone.

**Keim Concretal Repair System** - The Keim concrete repair system is based on cementitious and mineral constituents and is suitable for all forms of concrete substrate. The system consists of a range of materials that provide protection to both the concrete and the steel reinforcing bars.





## Key Features and Benefits:

- Environmentally friendly, ISO 14001
- Low VOC
- Breathable with high vapour permeability
- No emissions, solvents, plasticisers
- Non combustible, no toxic fumes
- Intensive, lightfast colour shades, flat matt appearance
- Colour consistent and UV- stable
- Unequalled longevity
- Resistant to mould, mildew and algae
- Easy and safe application
- Keeps facades clean for many years
- Easily redecorated
- Resistant to weathering, abrasion and soiling
- Economical
- Suitable for people with allergies
- No odour during or following application

## KEIM MINERAL PAINTS LTD

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