



KEIM PURKRISTALAT

1. Product Information

Keim Purkristalat is a two-part mineral silicate paint system for use on mineral surfaces. It offers water repellency, vapour permeability and forms a chemical crystalline bond with the substrate. Keim Purkristalat consists of a coloured powder component and a liquid waterglass component (Keim Fixativ).

Keim Purkristalat – Coloured Powder

Pure mineral powder with completely light-fast, in-organic pigments a reactive mineral powder.

Keim Fixativ

Pure mineral, silicate binding agent for Keim Purkristalat. As a pre-treatment on highly absorbent surfaces (diluted with water, for example 1:1 ratio)

- Easy to over-paint
- Non flammable
- Solvent resistant
- Odourless
- Colours range from complete opacity to a high degree of translucency
- Environmentally friendly

Material Data:

Purkristalat Paint

Resistance to vapour diffusion: $s_d = 0.01 \text{ m}$

Purkristalat Coloured Powder

Density: $0.6 - 0.8 \text{ g/cm}^3$

Keim Fixativ

Specific weight: 1.17 g/cm^3

pH: 11.3

Colour Shades:

White and 350 standard colours according to the Keim Palette

2. Field Of Application

For all mineral, absorbent surfaces. The final layer of a rendered coat must have a thickness of at least 5mm. Light rendered surfaces are not suitable.

Keim Purkristalat is especially suitable for restoring historic buildings as well as application on to building projects with special requirements on life span and colour.

3. Product Characteristics

Keim Purkristalat is a pure silicate paint. The binder comprises of liquid potassium silicate. Keim Purkristalat paints offer an unrivalled economical solution in that they offer protection against environmental influences, petrify with the substrate to an insoluble combination, are easily over painted, and have a proven longevity. Surfaces treated with Keim Purkristalat maintain their matt mineral appearance thereby preserving the original and historical outlook of the façade.

- Non film forming
- Water vapour permeable
- Colour fast
- Resistant to mould and fungal growth
- Easily cleaned
- Free from solvents
- Free from biocides

4. Application

Substrate Preparation:

When all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, decoration using Keim Mineral Paints may proceed.

Old film forming paint coats should be fully removed using a suitable Keim paint stripper. For friable and highly absorbent surfaces we would advocate the use of a single coat application of Keim Fixativ, diluted 1:1 with clean cold water applied by brush and worked well in to the surface.

For the removal of lime sinter from new renders and the cleaning of old render substrates we would advocate the use of Keim Lime Remover (see technical data sheet).

If surfaces have been repaired, or show differences in texture, Keim Kristall Felsit should be applied either as a primer coat or as an admixture to the first and second coat of paint. The actual coverage should be ascertained on a trial area.

Decoration:

Mix 5 kgs of Keim Purkristalat powder with 4 litres of Keim Fixativ (5kg Powder and 4lt Fixativ equates to approximately 10kg paint). Dilutant for the mixed Keim Purkristalat paints. For the first coat this basic mix is to be thinned with 2-6 litres of Keim Fixativ depending on the absorption of the substrate. The first coat is to brush applied. Thereafter, for the second coat the undiluted basic mix can be applied by brush, roller or airless spraygun. Facades exposed to rain, snow etc. should – not sooner than after eight days – be impregnated with the water repellent Keim Lotexan.

Air and surface temperature >5°C

Consumption:

For two coats onto a smooth surface approx. 0.35 kg/m² Keim Purkristalat colour powder and approx. 0.4 lt/m² Keim Fixativ.

For two coats with 50% Keim Kristall Felsit in the basecoat, approx. 0.3 kg/m² Keim Purkristalat colour powder, approx. 0.1 kg/m² Keim Kristall Felsit and approx. 0.4 lt/m² Keim Fixativ.

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.

Tools:

Clean immediately after use with water.

5. Packaging

Keim Purkristalat Colour Powder:
5 & 30 kg bags

Keim Fixativ:
4 & 24 lt containers

6. Storage

Keim Purkristalat Powder – indefinitely if kept dry.
Keim Fixativ - approx. 12 months, if kept cool, but frost free in tightly closed containers.

7. Identification Ref. Ordinance Of Dangerous Materials

Keim Purkristalat Colour Powder

Contains Zinc Oxide

Hazards Identification:

R52/53: Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

8. Danger Class In Goods traffic

Not applicable

9. Disposal

Keim Purkristalat Colour Powder:
E.G. waste reference No. 08 01 12

Keim Fixativ:
E.G. waste reference No. 06 02 99

10. 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. Thoroughly wash down any spillages with copious amounts of water.

Refer to COSHH data sheet.

