



## TECHNICAL DATA SHEET

# KEIM KRISTALL-FELSIT®-FEIN

## 1. PRODUCT DESCRIPTION

KEIM Kristall-Felsit-Fein is a siliceous filling additive for base and intermediate coatings within the KEIM Purkristalat-System and KEIM Unikristalat-System. KEIM Kristall-Felsit-Fein is a balanced blend of valuable silicates in various grain sizes.

## 2. FIELD OF APPLICATION

KEIM Kristall-Felsit-Fein is added to the soaked KEIM Purkristalat-Paint or to KEIM Unikristalat /Unikristalat-arte to achieve crack-filling and/or texture-matching base and intermediate coatings. KEIM Kristall-Felsit-Fein as filling additive within the KEIM Purkristalat-System can be applied on all substrates suitable for KEIM Purkristalat.

It is possible to use KEIM Kristall-Felsit-Fein as filled base coat for subsequent coatings with KEIM Purkristalat, KEIM Unikristalat or KEIM Unikristalat-arte.

KEIM Kristall-Felsit-Fein can be also used in interior spaces as filling base coat for subsequent intermediate or top coats with KEIM Quarzil.

KEIM Kristall-Felsit-Fein can be mixed in any ratio with KEIM Kristall-Felsit which has coarser grains to vary the filling effect of the surface texture.

## 3. PRODUCT PROPERTIES

KEIM Kristall-Felsit-Fein acts as crack-filling and texture-matching additive in the soaked KEIM Purkristalat-Paint or in KEIM Unikristalat and KEIM Unikristalat-arte.

- Crack-filling
- Largest grain is approx. 0.25 mm
- Texture-matching
- Forms an insoluble bond with the substrate by silicification
- Non-film forming
- Highest vapour permeability
- UV-stable
- Incombustible
- No odour

### Material characteristics:

- Specific weight: approx. 1.5 - 1.8 g/cm<sup>3</sup>
- pH-value: approx. 11
- Maximum grain size: 0.25 mm

### Colour shade:

White

## 4. APPLICATION INSTRUCTIONS

### Substrate preparation

The substrate must be sound, solid, dry, clean and free of dust and grease. Loose parts, dirt, oily substances, moss and algae have to be completely removed.

Existing film-forming coatings must be completely removed with KEIM Dispersionsentferner (paint stripper). For very absorbent or sanding substrates, a pretreatment with KEIM Fixativ, diluted 1:1 with water, is recommended.

Remove any sinter layers of new renders with KEIM Ätzflüssigkeit (lime remover) according to instruction (see Technical Data Sheet).

### Application:

For maximal filling effect on critical, irregularly absorbing substrates:

#### Base coat:

KEIM Kristall-Felsit-Fein

Mixing ratio: 25 kg KEIM Kristall-Felsit-Fein and 4 l KEIM Fixativ.

#### Intermediate coat:

KEIM Purkristalat diluted with 2 l KEIM Fixativ or KEIM Unikristalat/KEIM Unikristalat-arte depending on the absorbency of the substrate diluted with up to maximal 20% of KEIM Fixativ.

#### Top coat:

KEIM Purkristalat undiluted.

KEIM Unikristalat/KEIM Unikristalat-arte diluted with 10% up to maximum 20% of KEIM Fixativ.

Filling base and intermediate coatings within the KEIM Purkristalat-System, with addition of KEIM Kristall-Felsit-Fein, have to be applied by brush wet-in-wet, keeping a wet edge. Filling base and intermediate coatings within the KEIM Unikristalat-System, with addition of KEIM Kristall-Felsit-Fein, can be applied by brush or roller. Application by brush provides a better filling effect.

Preparation of filling coats within the KEIM Purkristalat-System:

Soak 5 kg KEIM Purkristalat-Farbpulver (colour powder) in 4 l KEIM Fixativ. This mix adds up to 10 kg ready-to-use



paint for the top coat. Soaking the material one day before provides a better homogeneity and higher efficiency (less consumption!). For base and intermediate coats dilute the soaked paint with KEIM Fixativ as described and add the filling additive KEIM Kristall-Felsit-Fein.

Addition quantities of KEIM Kristall-Felsit-Fein:

50% or 100% KEIM Kristall-Felsit-Fein are added to the base coat depending on the necessary filling or texture effect and maybe another 50% to the intermediate coat.

50% Addition:

10 kg KEIM Purkristalat soaked + 5 kg KEIM Kristall-Felsit-Fein +

- 2 - 6 l KEIM Fixativ (base coat) or
- 2 - 4 l KEIM Fixativ (intermediate coat)

100% Addition:

10 kg KEIM Purkristalat soaked + 10 kg KEIM Kristall-Felsit-Fein +

- 2 - 6 l KEIM Fixativ (base coat)

### Application conditions:

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

### Drying times:

A drying time of at least 12 hours must be left between coatings.

### Consumption:

On a smooth substrate per filling coat:

50% addition: approx. 0.1 kg/m<sup>2</sup>  
KEIM Kristall-Felsit-Fein

100% addition: approx. 0.2 kg/m<sup>2</sup>  
KEIM Kristall-Felsit-Fein

(as base coat approx. 0.5 kg KEIM Kristall-Felsit-Fein).

The indicated consumption figures are guide values and depend on the substrate condition, coating structure and application method. Exact values can only be determined by painting sample areas on the structure to be coated.

### Cleaning of tools:

Clean immediately after use with water. During work pauses the tools should be kept in the product or in water.

## 5. PACKAGING

5 kg and 25 kg containers

## 6. STORAGE

Shelf life is approx. 12 months in sealed container under cool, but frost-free conditions.

## 7. DISPOSAL

EC Waste Code No. 08 01 12

Any residues must be emptied out of containers before recycling.

## 8. SAFETY INSTRUCTIONS

Giscode: Not applicable

The mineral binder is alkaline. Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes. Keep out of reach of children.

Please refer to EC 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.

