

## Kieselit-Reibeputz

Ready for use silicate-based render with decorative corrugated texture for exteriors and interiors. Tested in the ALLFAtherm insulation systems



### Product characteristics

- Properties**
- Weather-resistant
  - Low water absorption w-value < 0.1 (W3 as per EN 1062)
  - High diffusion capability sd-value < 0.1 (V1 as per EN 1062)
  - Due to silification insoluble bonding on mineral substrates
  - Very good application properties
  - Impact- and scratch-proof
  - Well proven in the maintenance of old and historic buildings
  - Environmentally friendly
  - Biocide-free

**Areas of application** Exterior and interior

- Suitable substrates in detail**
- ETICS
  - Concrete, renderings
  - Solid and stable matt existing paint layers



### Material description

- Binder** Potassium water glass
- Density** approx. 1.7 kg/dm<sup>3</sup> kg/dm<sup>3</sup>
- Water vapour permeability** < 0.1 m according to DIN EN ISO 7783
- Water absorption coefficient (w-value)** < 0.1 kg/m<sup>2</sup>h<sup>0.5</sup> according to DIN EN 1062-3
- Maximum particle size** Up to approx. 2 mm, 3 mm and 5 mm
- Average consumption (short text)** with 2 mm approx. 2,600 g/m<sup>2</sup>, with 3 mm approx. 3,500 g/m<sup>2</sup>
- Average consumption** It is advisable to determine the exact consumption figure by producing a sample area.
- Colour shade** White
- Suitable tinting paints**
- Tinting at the factory
  - Via the ALLFAcolor tinting machines
  - Commercially available inorganic tinting and full colour paints as well as tinting concentrates
  - Please note that with tinted products the specified properties may change.
- Storage** Cool, but protected from frost
- Thinning** Kieselit-Grundiermittel mixed with water at a ratio of 1:1.

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### Substrates

#### Suitable substrates

- All usual mineral substrates (renders/plasters, concrete, panels)
- Solid mineral and organic existing paint layers
- Renderings according to valid ETICS-approvals

#### Substrate conditions

The substrate must be clean, dry, frost-free, firm and sound as well as free from efflorescences, algae, moss, fungal attack, sinter layers and release agents. Follow the building regulations (in Germany VOB, Part C, DIN 18363, Section 3).

#### Substrate conditions

##### Concrete

Remove forming oil, grease and wax by washing with surfactant. Remove any sintered layers mechanically. Check the absorbency of the concrete by wetting tests. In addition, the guidelines according to BFS Fact Sheet No.1 apply for exterior coatings and the guidelines according to BFS Fact Sheet No. 8 for interior coatings.

##### Fibre-cement:

Products of fibre-cement have to be primed water based. On exterior surfaces solvent-based primers may be used as well. For constructions showing inaccessible and uncoated rear sides and edges do only use water vapour permeable coatings. Since 01.12.2012 uncoated fibre-cement panels containing asbestos must no longer be coated according to the Ordinance on Hazardous Substances (GefStoffV). For asbestos containing fibre-cement the corresponding directives (in Germany TRGS 519) referring to the handling with asbestos have to be observed.

##### Gypsum blocks

Adjust the primer to absorbency. With coatings destined to bridge capillary cracks, reinforce completely using a fleece. In addition the guidelines of BFS-Fact Sheet No. 17 apply.

##### Gypsum plaster, gypsum sand plasters etc.

Remove any sintered layers. For first coatings take care of a sufficient penetration of the primer (e. g. by using a penetrating primer). Additionally the guidelines of BFS Fact Sheet No. 10 apply.

##### Derived timber products (chipboards, OSB-boards etc.) - interior

Have to be covered with a suitable gypsum board or gypsum fibre board as otherwise cracks may occur in the area of butt-joints.

##### Base renders (exterior):

Mineral base renders must be thoroughly cured and dry, because otherwise discolouration, in particular with tinted following coats, may occur. As a rule of thumb assume 1 day drying time per mm of layer thickness, but correspondingly longer at low temperatures and high humidity. Excessive temperatures and low humidity also lengthen the setting process. Treat replastered locations with fluosilicate. In addition, the guidelines according to BFS Fact Sheet No. 9 apply.

##### Base renders (interior):

Mineral base renders must be thoroughly cured and dry, because otherwise discolouration, in particular with tinted following coats, may occur. As a rule of thumb assume 1 day drying time per mm of layer thickness, but correspondingly longer at low temperatures and high humidity. Excessive temperatures and low relative humidity also lengthen the setting process. Treat replastered locations with fluosilicate. In addition, the guidelines according to BFS Fact Sheet No. 10 apply.

### Application

#### Application method

Application by spraying or trowel

#### Spraying data

Apply the material with conveyor devices such as Jäger Record-, Putzmeister-, PTF spraying equipment, with nozzle widths of 6 - 8 mm at 2 mm particle size, 8 - 10 mm at 3 mm particle size and air performance of 500 L / min. Rotor/stator D4-3 1/2 performance

#### Coating system

**Intermediate coating** with Kieselit-Grundierfarbe thinned with water 2:1 is recommended.

#### Application

Stir the material well and, if required, add some water to obtain the appropriate working consistency. Then apply with a stainless steel trowel and draw off evenly. The desired texture is obtained with a plastic float with light circular movements. To obtain uniform areas a smooth substrate is required.

#### Application hints

Do not apply under a glaring sun, during strong wind or on warm substrates. In order to avoid the formation of laps, apply the material wet-on-wet.

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The following regulations have to be observed : the technical data sheet of each product, the relevant valid building approvals, the current ALLFATHERM application brochure "Verarbeitung von ALLFATHERM-Dämmsystemen", DIN 55699 and in Germany BFS Fact Sheet No. 21 and the guidelines referred therein, as well as Technical System Information "Compendium ETICS and Fire Protection" published by the professional association Wäremedämmverbundsysteme (ETICS).

**Note** Check tinted paint for colour accuracy prior to the application. Objections regarding the colour shade cannot be accepted after the application.

The figures given for parameters are average values. Due to the use of natural raw materials in our products, the actual value determined on the individual supplied product may differ slightly without affecting its suitability. These data refer to the white respectively standard product. Tinting may cause deviations.

### Practical hints

#### Masking Works

Always use UV-resistant adhesive tapes for exterior works. On completion of the coating, particularly with dispersion paints and / or higher layer thicknesses, immediately remove adhesive tapes, in order to avoid untidy contours.

#### Efflorescences on the Surface

The chemical setting process of silicate products may cause precipitation of potash on the surface. In interior, this can normally be dry removed, e.g. by vacuum cleaning. In exterior, potash will normally disappear under the influence of water (e.g. rainfall).

#### Dark Colour Shades on ETICS

Colour shades with a light reflectance value  $\geq 20$  are possible on ETICS without limitations. On request, darker shades are possible based on a specific TSR-formulation. Please observe the information regarding colour stability with brilliant and intensive hues.

#### Covering measures

Cover adjacent areas, especially glass, ceramics, clinker, carefully, as water glass containing products may affect their surfaces.

#### New mineral Substrates

New mineral substrates may only be coated after setting and drying, not earlier than after 14 days, better after 4 weeks. In unfavourable drying conditions, the waiting period can be prolonged.

#### Horizontal surfaces

Exterior horizontal surfaces such as mural crowns, cornices, windowsills etc. must be professionally protected with appropriate covering material, e.g. from metal or stone, in order to prevent dirt stains and moisture damage of the coating.

#### Weather Conditions

Do not apply under a glaring sun, during strong wind or on warm substrates. With fresh, primarily tinted mineral coatings, sharp shadows might lead to disturbing colour differences. Protect the fresh coating from moisture. If necessary use protective tarpaulins.

#### "Cloudy" Drying

Depending on weather and object conditions, the chemical setting process of mineral and silicate renders/plasters may cause a cloudy or streaky appearance on the dried coating. This effect occurs especially with tinted renders/plasters and does not affect the functional capability of the coating. We recommend to apply an equalising paint, colour matched to the façade paint, preferably of the Kieselit range.

#### Continuous Surfaces

Before processing on continuous surfaces, especially with tinted material, check for colour consistency or mix the required quantity in advance. In order to avoid laps, apply wet-on-wet.

### Temperature limit

Between + 8° C and + 30° C for substrate and ambient air during processing and drying.

The fact sheet "Rendering, thermal insulation, surfacing and coating at high and low temperatures" published by the German Association Construction and Colour should be observed.

### Drying time

At + 20° C for substrate and ambient air and 65% relative humidity (RH), rainproof after approx. 5 -6 hours. Final hardness after approx. 20 days. Lower temperature extend the drying time.

### Tool cleaning

Immediately after use with water

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### Information

<b>General information</b>	Keep out of reach from children. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow to enter drains, waterways or soil. Clean tools immediately with water and soap. The coating material is highly alkaline. Therefore protect skin and eyes from paint splashes.
<b>Hazard statements and safety advice</b>	Always wear long trousers „Avoid prolonged skin contact with the plaster. Rinse affected areas immediately with plenty of water. The longer fresh plaster remains on your skin the greater the risk of severe skin damage. Follow the manufacturer's instructions for safety and health during application.
<b>Declaration of ingredients</b>	Poly acrylate dispersion, potassium water glass, titanium dioxide, calcium carbonate, siliceous fillers, water, additives
<b>Observe safety data sheets</b>	Further details: See Safety Material Data Sheet (MSDS)
<b>WHC</b>	1 (weakly water-polluting)
<b>Waste disposal</b>	Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried hardened product residues as construction site/demolition/ municipal or domestic waste.

### Container size

Content	EAN code	Article no.
25 KG	4002822011802	978370
25 KG	4002822011789	978369

### System specific and system completing products

Kieselit-Grundiermittel  
Kieselit-Grundierfarbe  
Kieselit-Fusion  
Kieselit-Fassadenfarbe

This data sheet cannot deal with all types of application arising in practice. Therefore, we cannot be held responsible for their content. These instructions do not release the purchaser / applicator from his responsibility of professionally examining the substrate and determining the suitability of the product in consideration of the project characteristics. In case of queries please request the technical assistance of ALLIGATOR FARBWERKE.