

Diessner Silikatputz SKP K (Diessner Silicate Plaster)

Ready-to-use silicate textured plaster for indoors and outdoors



Silicate plaster scratch structure

- Very easy to spread
- Extremely water-repellent and weather-resistant
- Robust and hard-wearing surface
- Uniform texture
- Low stress
- Easy and flexible to handle
- Environmentally friendly and low-odour
- Alkali resistant, therefore saponification-resistant
- Insensitive to industrial exhaust gases
- Grain sizes: 1.5, 2 and 3 mm.
- Can be used as a top coat in the Diessner composite heat insulation system

Application

Ready-to-use silicate plaster for indoors and outdoors. SKP-K stands for decorative plastered patterns. Diessner silicate plasters produce very robust, extremely weather-resistant, excellent water-repellent surfaces that are very easy to spread and have a uniform texture. Suitable substrates include all solid plasters within the following mortar groups:

P Ic- P III in accordance with DIN V 18550, concrete, fibre cement slabs as well as plasterboard, adhesive old coats and similar surfaces with an appropriate adhesive primer. Diessner silicate plasters are also a top coat component in the Diessner composite heat insulation system.

Technical data

Binding agent base	Potash water glass with minimal organic additives
Pigment base	Titanium dioxide
Water vapour permeability	High class, corresponds to sd-value <0.14 m in accordance with DIN EN 1062
Colour	White
Tinting	Can be tinted in the factory using Diessner MIX or with commercially available silicon-based full shades and tints. Please refer to BFS data sheet no.25.

Colour fastness based on

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BFS data sheet no. 26

In-plant tinting: Class B / Group 1
Diessner MIX: Class B / Group 1
25 kg container

Container size

Storage

Store in a cool, frost-free environment. Keep any opened containers tightly closed and use as soon as possible. Unopened containers can be kept for a minimum of 24 months. See the stamp on the container for the date of manufacture.

Storage stability

At least 2 years if unopened. Close any used containers immediately and use within a short period of time.

SKP- K coverage*

1.5 mm grain size: approx. 2.4 kg/m²
2 mm grain size: approx. 3.1 kg/m²
3 mm grain size: approx. 4.2 kg/m²

*The standard values indicated for material coverage refer to a smooth subsurface without any loss from pouring or spillage. A trial coat can be applied to determine any differences in the subsurface or handling.

Product code

Colours and paint

M-SK 01

Hazard identification

Not applicable

Special instructions

Keep out of reach of children. Do not allow to come into contact with skin and eyes. In case of contact with the eyes, rinse thoroughly with water immediately and consult a doctor. In case of contact with skin, rinse thoroughly with water. In case of swallowing, summon a doctor immediately and show him the label or technical data sheet. When using in a spraying process, do not breathe in the spray mist and use breathing apparatus where there is insufficient ventilation. Read the label and product information prior to use. Do not release into any drainage systems, waterways or soil. Carefully cover all surfaces that are not being coated. Rinse all types of plaster sprayers immediately with water. Further information: see EC safety data sheet.

VOC content

Class C, Type WB, VOC limit from 2010 for outdoors: max. 40 g/l, for indoors: max. 30 g/l.
VOC content <10 g/l

Disposal

Only recycle completely empty containers. Dispose of any liquid material residue at an authorised collection point that handles old

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paint/varnish. Any dried out material residue can be disposed of as hardened paint or as domestic waste. Waste key no. 080112 according to the AVV waste directory regulation.

Declaration of ingredients

Potash water glass, synthetic resin dispersion, titanium dioxide, calcium carbonate, silicates, water, film forming aids and additives. Advice for people allergic to isothiazolinone is available on telephone number +49 (0) 30/ 60 00 0249.

Handling guidelines

Handling

Even out absorbent subsurfaces using Diessner Fixative (Fixativ). Apply an intermediate coat using Diessner silicate brush-on plaster (Streichputz) or Diessner plaster base (Putzgrund) in the shade of the plaster coating. Dilute Diessner silicate plaster (Silikatputz) with max. 3% of Diessner Fixative (Fixativ) if required and mix thoroughly with an electric agitator. Cover the entire surface using stainless steel trowels and smooth off evenly depending on the grain size. Wipe off (rub off) immediately with a plastic trowel or PU float. The choice of tool influences the roughness of the finished surface.

Rub off (wipe off) decorative plaster evenly in a circular movement.

Tools and machines

Use stainless steel trowels to lift up the plaster and plastic trowels or a PU float to rub it off. Can also be used with any suitable fine plaster spraying machines (screw pumps). Refer to the special instructions when using a spray application. Clean with water immediately after use.

Spray coating

Nozzle: 6-8 mm depending on the grain size,
Spray pressure: 3-4 bar
Air pressure of spraying device: approx. 0.5-1.5 bar as required
Air volume of spraying device: approx. 500 litres/minute.
Refer to the special instructions when using a spray application.

Handling temperatures

Do not use if the subsurface, ambient or drying temperature is below +8°C and above +25°C. Do not use if the relative humidity is above 85%. Note: the handling period is significantly reduced at temperatures above +20°C. Do not use in direct sunlight, in strong winds and if there is a risk of rain or night frost. For more information refer to the data sheet from the German Stucco Association: "Plastering at high and low temperatures."

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Drying time

Surface dry after approx. 24 hours and completely dry, paintable and hard-wearing after three days at a temperature of + 23° C and 50% relative humidity. Lower temperatures and/or higher humidity increase the drying time significantly. Protect from any moisture during the drying period.

Please refer to

the VOB, Part C DIN 18363 Para. 3. when carrying out any work. In order to avoid any deposits on larger areas it is essential to apply a rapid coat wet on wet; deploy one employee per area of scaffolding, where applicable. Pay attention when wiping off on a smooth structure. When using natural aggregates differences may be found in the colour and texture, therefore only use material from the same batch for areas that are connected or mix the different batches in advance. Occasional darker grains (black grains) may be found when using natural aggregates. Working methods, tools and subsurfaces have a significant effect on the colour, texture and material coverage. Not suitable for horizontal surfaces with any water loading.

Atmospheric conditions can lead to changes in the shades of colour because of the chemical curing process. These do not pose any technical and functional shortcomings and therefore cannot lead to any complaints. As a result, we recommend that you always apply a balancing coat using Diessner balancing colour when using coloured silicate plasters.

With tinted plasters that are completely dried out, mechanical strain on the surface can lead to changes in colour (so-called brushing effect or breakdown of the filler/pigment). This does not affect its weather resistance.

Surrounding surfaces, special glass, ceramics, natural stone, metal and bricks should be thoroughly covered prior to starting any work. Plaster splashed onto the skin should be washed off immediately. The plaster is not suitable for plastic or wooden surfaces or surfaces that are prone to salt contamination.

Consistent colour accuracy cannot be guaranteed with the existing subsurface especially with subsurfaces that have different absorption, drying conditions or different surface textures. Furthermore, alkali compounds that are present in the subsurface or any other ingredients can have an impact on the colour. Changes in colour can occur as a result of different weathering on the surface of the plaster. Please refer to BFS data sheets no.25 and 26.

Protect from any humidity during the drying period. Failure to comply with this may result in damage to the plaster coat in the form of peeling, blistering, premature chalking or the leaching of additives (sticky, partly shiny run-off stains).

Water-soluble additives can be washed out in the case of severe exposure to moisture (owing to dew, mist, rain and driving rain in particular). At worst, these can appear as sticky, slightly shiny run-off stains (leaching of additives). Therefore, protect the plaster from any moisture during the drying period. Any run-off stains that are present have no effect on the shelf life of the product and will be completely removed by any further weathering.

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As any washed out additives that can be seen are water soluble, they are generally removed by natural weathering. The technical properties of the dried plaster coat are not adversely affected by this.

Refer to the special instructions prior to use.

Please note the following when using outdoors:

To avoid any fungus and algae forming within a short period of time, we recommend using a special FA (fungicide/algicide) version of the Diessner silicate plaster (Silikatputz) outdoors. An additional coat of silicate, including the FA version (e.g. with Diescolith Granisil and Diescolith SOL-Silicate) or an additional coat using Diessner AGF balancing colour can generally increase the protective effect. The label of the FA version of the silicate plaster is identified with an information tag. The time period for which this FA version is effective is dependent on the conditions of the property, the exposure to moisture and the frequency of the outbreak. The permanent prevention of algae or fungus cannot be guaranteed based on the current state of technology.

Please request the technical data sheet for Diessner FA silicate plaster (Silikatputz) and refer to the handling information or special instructions.

Suitable substraces and their preparation

Subsurfaces must be flat, solid, free of dirt, blooming, discolouration, fungus outbreaks, sintered layers, multi-grain layers and separating substances. Subsurfaces must be dry (have reached their equilibrium moisture content). Any old coats that are to be treated must be tested for their suitability, adhesion and stability. Please refer to the VOB, Part C DIN 18363 Para. 3 and the respective BFS data sheets. Please refer to the statutory regulations in the case of any cleaning work. It is recommended that sample areas are established prior to the start of any work in order to test the adhesion and quality of the surface. Please refer to the technical information for Diessner primers prior to carrying out any work.

Outdoor areas

Diessner composite heat insulation system

Allow the respective reinforcement layer to dry out well for at least 3 days (at 23°C and 50% humidity).

KAM adhesive and reinforcement mortar: primer with Diessner plaster base (Putzgrund).

SKS system adhesive and filler: primer with Diessner plaster base (Putzgrund).

Lime plasters or plasters containing cement from mortar groups CS II, CS III and CS IV in accordance with DIN EN 998-1 (mortar groups P II and P III in accordance with DIN V 18550)

Areas to be touched up must have dried out well and set. Apply a fluosilicate solution and rewash areas to be touched up. Please note: apply the fluosilicate solutions to the area including the outer edge and rewash with clear water. If a large area has to be touched up, apply the fluosilicate solution to the whole area and rewash. Brush down plasters with a multi-grain layer, stabilise by applying fluosilicate solution and rewash with clear water. Remove the sintered layer on plasters with a sintered layer by etching with fluosilicate solution or etching fluid and rewash with clear water.

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New plasters should be left untreated for at least 4 weeks depending on the plaster after-treatment, time of year and temperature conditions. Areas to be touched up must have dried out well and set. Apply a primer coat to absorbent plasters using Diessner Fixative (Fixativ)(2:1 mixed with water). Apply 1-2 primer coats wet on wet to surfaces that are porous, lightly sanded and ultra-absorbent using Diessner Fixative (Fixativ)(2:1 mixed with water). Test the effectiveness of the primer. Please refer to BFS data sheet no.25. Apply an intermediate coat using Diescolith Quarzgrund.

Concrete

Remove any residue of separating agent as well as any multi-grain layers mechanically or using pressure water jets in compliance with the statutory regulations.

Apply a primer coat to lightly absorbent or smooth surfaces using Diessner brush-on primer and adhesion promoter (Streich- und Haftgrund WP). Apply a primer coat to absorbent surfaces using Diessner Fixative (Fixativ)(2:1 mixed with water). Apply an intermediate coat using Diessner silicate brush-on plaster (Silikat Streichputz).

Unstable or chalky silicate finishes

Completely remove with an appropriate method (e.g. mechanically or using high pressure hot water cleaning or stripping incl. subsequent cleaning in compliance with the statutory regulations). Allow the subsurface to dry out well. Even out the existing absorbency using Diessner Fixative (Fixativ)(2:1 mixed with water).

Other subsurfaces indoors

Gypsum and ready-mix plasters from mortar group P IV in accordance with DIN V 18550

Sand, de-dust and prime gypsum plasters that have a sintered layer using Diessner Hydrosol-Tiefgrund ELF. Apply an intermediate coat using Diessner plaster base (Putzgrund).

Plasterboard panels

Sand down and de-dust the layers of filler. Apply a primer coat to the panels with water soluble discolouring ingredients using Diessner Aqua Insulating and Water Primer and Adhesion Promoter (Aqua Isolier- und Haftgrund) that can be diluted with water. Apply a primer coat using Diessner plaster base (Putzgrund).

Stable gloss or emulsion paints

Abrade any shiny old coats. Clean dirty surfaces. Allow the subsurface to dry well. Apply a primer coat using Diessner plaster base (Putzgrund).

Surfaces with mould infestation

Use water to remove the layer of mould. Treat the areas using Diessner Toxol. Carry out the work in accordance with the technical information! Apply a coat of primer depending on the subsurface. Apply an intermediate coat using Diessner plaster base (Putzgrund). Apply two layers of top coat to the dried textured plastering using Diessner Mattlatex W.

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Note

Information given in this technical information is compiled to the best of our knowledge and corresponds to our state-of-the-art application technology. However, you can obtain non-binding advice as the working method in each individual case is dependent on the condition of the structure to be coated and can be decided on the structure itself. Conditional exceptions are to be taken into account on site. Liability cannot be derived from the aforementioned information.

Due to the different substructure materials and the working conditions that are outside of our control, we recommend that sufficient tests are conducted in each case to ensure the suitability of our products for the intended procedures and purposes.

All previous versions cease to apply with the publication of this technical data sheet.