

## Technical Data Sheet

# Rajasil Silikat-Fassadenfarbe

(Silicate Facade Paint)

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| <b>Rajasil Silikat-Fassadenfarbe:</b> | Ready-to-apply, environmentally friendly silicate paint in accordance with VOB DIN 18 363 2.4.1 with water repellent-properties.  |
| <b>Properties:</b>                    | Excellent water vapour and carbon dioxide permeability properties; hassle-free application; water-repellent; open-porous; non-film-building   |
| <b>Areas of Application:</b>          | <p>On mineral substrates with sufficient load-bearing capacity. Due to its excellent water vapour diffusion and water-repellent properties, Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint) is especially suited for renovation work, e.g. on Rajasil Sanierputze (Rajasil renovation renders) and Rajasil KP Kalkputze (Rajasil KP lime renders).</p> <p>If used on wall bases, additional hydrophobising using Rajasil NIG (Nano Imprägnierung und Grundierung / Nano Waterproofing and Primer) is recommended (see Technical Data Sheet). Can also be used as levelling paint on coloured, mineral finishing plasters to achieve a uniform colour appearance, such as on HECK STR (Strukturputze / textured plasters), HECK ED (Edel-Dekor / Decorative Render) or other coloured mineral HECK / Rajasil Oberputze (finishing plasters). Also suitable for HECK insulation systems.</p> <p>Can be used as glaze on coloured, mineral finishing plasters to achieve a desired colour appearance, such as on HECK STR (Strukturputze / textured plasters), HECK ED (Edel-Dekor / Decorative Render) or other coloured mineral HECK / Rajasil Oberputzen (finishing plasters) and/or plasters with a finished surface (felted or stone-textured). Also suitable for HECK insulation systems</p> <p>Use on vertical surfaces only! The user is liable for any other use exceeding these areas of application.</p>                      |
| <b>Composition:</b>                   | Modified potassium silicate, mineral, inorganic pigments and fillers  |
| <b>Technical Data:</b>                | $s_d$ : < 0.01 m, w: < 0.1 kg / (m <sup>2</sup> h <sup>0.5</sup> ), colour fastness: A1 (colour fastness code (Fb code) according to BFS-Merkblatt (BFS Leaflet) No. 26   |
| <b>Consumption:</b>                   | <p>The consumption data specified is reference values. Exact consumption must be determined by means of trial coating of the object.</p> <p>Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint)<br/>First and final coating, with one coating depending on the plaster surface condition approx. 0.25 l / m<sup>2</sup></p> <p>Rajasil FIXATIV:<br/>addition to Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint) approx. 0.03 l / m<sup>2</sup></p> <p>Rajasil FIXATIV for first coating:<br/>depending on the absorbency of the substrate, addition of a maximum of 20%</p> <p>Two glaze coatings, for each working step depending on the plaster surface condition approx. 0.1 l / m<sup>2</sup><br/>Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint) + Rajasil FIXATIV Rajasil SIF + Rajasil FIXATIV: 1:5 up to approx. 1:20 (e.g. one part Rajasil SIF and 5 parts Rajasil Fixativ) depending on the desired glaze effect (coverage ratio)</p>  |
| <b>Substrate:</b>                     | <p>Suitable: Clean, solid, non-efflorescent mineral substrates, e.g. newly applied renders CS I to IV according to DIN EN 998-1 and existing renders, brick, lime sand brick, concrete and fibre cement surfaces, non-ferrous natural stone.</p> <p>On ferrous natural stone, Rajasil SHF (Siliconharzfarbe / Silicone Resin Paint) is to be used.</p> <p>The correct time for paint-coating new renders depends on the type of grout used and the weather conditions prevalent during curing of the grout.</p> <p>Please observe the following average values below:<br/>Predominantly lime-based renders at least 6 weeks.<br/>Trass lime renders at least 4 weeks.<br/>Lime-cement-based renders at least 2 weeks.<br/>Carbonatisation depth has to be at least 2 mm.</p> <p>Unsuitable: Wood, clinker, plastic, metal, oil-paint and varnish coatings as well as other organic existing coatings</p>  |
| <b>Preparation of the Substrate:</b>  | <p><b>Make sure to thoroughly cover glass, metal and ceramic surfaces, natural stone brick linings etc prior to coating.</b></p> <p>If repairs to existing renders are necessary, use a mortar matching the after-curing properties of the existing render (absorbency, strength, texture). Carbonatization depth has to be at least 2mm.</p> <p>Clean substrate thoroughly using e. g. pressurised-water jets; allow sufficient time to dry.<br/>Treat fungi, algae or moss infestations with Rajasil Fungizid. Remove unsound coatings mechanically.</p> <p><b>Natural stone substrates</b> must be stable, dry and non-efflorescent. Clean thoroughly but gently using suitable methods. In case stabilising measures, using, e. g. Rajasil Steinfestiger OH 100, are necessary, observe adequate waiting time (approx. 3 weeks).</p> <p><b>Lime sand brick masonry</b> must be suitable for facing brickwork. The jointing must be free from cracks, but not overly smooth.</p> <p>If necessary, clean any release agent residue off concrete and fibre cement surfaces.</p> <p>If necessary, clean concrete and fibre cement surfaces to free from any release agent residues. (Observe CO<sub>2</sub> permeability)</p> <p>For a homogeneous glaze substrate with ideal absorbing capacity, two siliceous coats should be applied using Rajasil SIF and/or Rajasil FIXATIV (preferably with the brush) depending on the desired effect.</p> |

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| <b>Preparation of the Substrate:</b>            | For solid and uncoated substrates with normal absorbing capacity, Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint) is diluted as required, but with a max. of 10 % of Rajasil FIXATIV.<br>For substrates with high absorbing capacity, Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint) is diluted with max. 20 % of Rajasil FIXATIV.  |
| <b>Application and Substrate Temperature:</b>   | At least + 5 °C Do not process if exposed to direct sunlight or on substrates heated by the sun. Lower temperatures during the curing phase can have a lasting adverse effect on product properties.   |
| <b>Application:</b>                             | Each coating may be applied using brush, roller or airless spraying application. Only one application method should be applied at a time, since using several methods – e.g. brush and roller application on a single surface – may result in different colour shades.<br><i>First Coating:</i><br>For solid and uncoated substrates with normal absorbing capacity, Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint) is diluted as required, but with a max. of 10 % of Rajasil FIXATIV. For substrates with high absorbing capacity, Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint) is diluted with max. 20 % of Rajasil FIXATIV.<br><i>Final Coating:</i><br>It is to be performed 12 hours after the previous coating at the earliest. For final coating and/or levelling paint, Rajasil SIF (Silikat-Fassadenfarbe / Silicate Façade Paint) is applied in undiluted form or, in case of a coarse plaster texture, in diluted form with up to a max. of 10 % of Rajasil FIXATIV (Fixativ / Fixative). To determine the correct proportion of the fixative and consumption, we recommend trial coating especially for textured plasters. Do not change the proportion of the fixative determined; otherwise, this will result changes to the colour! The coating work must not be performed if exposed to direct sunlight, wind, rain or the risk of night frost. Observe standard precautionary measures! High humidity will result in longer drying times.<br><i>Glaze coating:</i><br>The individual glaze coatings can be applied using a brush. Prior to and during any work, stir the prepared glaze homogeneously again and again. Under no circumstances may water or other materials be added. The finished glaze is applied using a suitable (oval) glaze brush with the cross-coating technique. When applying the glaze, it is important to always work quickly and with the product in a wet state as well as to avoid brush marks. The glaze coating must not be performed if exposed to direct sunlight, wind, rain or the risk of night frost. Observe standard precautionary measures! High humidity will result in longer drying times. |
| <b>Drying Time:</b>                             | Observe a drying time of at least 12 hours between applications.<br>Between the individual glaze coatings, observe a waiting period of at least 6 hours.   |
| <b>After Treatment:</b>                         | Protect fresh coating adequately from direct sunlight, wind, rain and frost.   |
| <b>Note on Factory-Provided Colourisations:</b> | Generally, colours will be adjusted according to the Rajasil Farbtonblock (colour tone scale) or according to the sample provided. Prior to the application of the coating, set up a test panel and compare to the colour on the colour tone scale or to the custom colour ordered. Application method and application conditions – such as type, absorbency and surface texture of the substrate (see also VOB DIN 18 363, paragraph 3.1.1), weather conditions or environmental reflexes – can result in divergences in colour shade. When placing a follow-up order, please make sure to provide: the date of your initial order, the batch number, as well as the shipping note/invoice number. Due to the usage of mineral raw materials, follow-up deliveries may slightly vary in colour shade. We therefore strongly recommend using only material from the same delivery for continuous surfaces. Complaints made after application as to divergences in colour shade from the colour tone scale (Farbtonblock) or from the sample provided cannot be accepted. Also, divergences in colour shade that are a result of the circumstances described do not constitute a reason for complaint.  |
| <b>Cleaning of Tools:</b>                       | Immediately after use, with water  |
| <b>Notes:</b>                                   | Variations in colour shade and surface texture over the course of time due to weather and environmental factors, e.g. atmospheric particles, are not covered by warranty. Technical functionality remains unaffected. Condensation prior to or during application as well as during drying can result in the formation of stains/spots. Only apply when weather conditions are suitable. Under adverse conditions, the formation of micro-organisms, e. g. algae, cannot be ruled out and does not constitute a reason for complaint.  |
| <b>Safety Instructions:</b>                     | Rajasil Silikat-Fassadenfarbe contains potassium silicate and thus reacts alkaline. Avoid contact with eyes and skin. Protect eyes and skin. If product gets on skin, wash of immediately with soap and water. If product gets in eyes, thoroughly rinse with plenty of water for at least 15 minutes and seek medical attention. Wear suitable protective gloves. If product is swallowed, seek medical attention immediately. Keep product out of the reach of children. For further information see Safety Data Sheet.  |
| <b>Giscode:</b>                                 | M-SK01   |
| <b>Storage:</b>                                 | Store in original container in a cool place that is free from frost; shelf-life 12 months max.   |
| <b>Quality Control:</b>                         | Constant monitoring of production through laboratory analyses.   |



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