

Technical Data Sheet

Rajasil KGP

(lime basecoat render)

Rajasil KGP:	lime-based dry factory-mixed mortar, basecoat, GP, CS I, W 0 in accordance with DIN EN 998-1 (P I according to former DIN V 18 550) Color: light grey																
Properties:	can be applied manually or with plastering machine; purely mineral, colour: light grey, basecoat for Rajasil mineral finishing coats																
Areas of Application:	<ul style="list-style-type: none"> – as undercoat (basecoat) on conventional masonry and concrete for interior and exterior application; as single layer plaster on interior walls – not suitable for application on wall bases Responsibility for any usage outside these areas of application lies solely with the user.																
Composition:	white lime hydrate; hydraulic lime in accordance with DIN EN 459; carefully composed limestone sands; max. grain size 1mm																
Technical Data:	<table border="1"> <tr> <td>Mortar group</td> <td>GP, CS I, W 0 with DIN EN 998-1 (P I with DIN V 1855)</td> </tr> <tr> <td>Cured mortar gross density</td> <td>1,2 kg/dm³</td> </tr> <tr> <td>Flexural strength</td> <td>0,8 N/mm²</td> </tr> <tr> <td>Impact resistance</td> <td>approx. 1,5 N/mm²</td> </tr> <tr> <td>Rake DIN 4108 thermal conductivity</td> <td>0,43 W/(m·K)</td> </tr> <tr> <td>E - module</td> <td>approx. 2400 N/mm²</td> </tr> <tr> <td>c - value (capillary water absorption)</td> <td>> 0,4 kg/(m²·min0,5)</td> </tr> <tr> <td>μ - value</td> <td>approx. 10</td> </tr> </table>	Mortar group	GP, CS I, W 0 with DIN EN 998-1 (P I with DIN V 1855)	Cured mortar gross density	1,2 kg/dm ³	Flexural strength	0,8 N/mm ²	Impact resistance	approx. 1,5 N/mm ²	Rake DIN 4108 thermal conductivity	0,43 W/(m·K)	E - module	approx. 2400 N/mm ²	c - value (capillary water absorption)	> 0,4 kg/(m ² ·min0,5)	μ - value	approx. 10
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Coverage:	approx. 1.5kg dry mortar / m ² / mm render thickness Yield: 10kg dry mortar will yield about 6.5 litres wet mortar																
Substrate/Preparation of the Substrate:	All substrates must be dry, stable, structurally sound, dust-free, frost-free, absorbent, and free from separating substances (e.g. formwork oils). Thoroughly pre-wet normally absorbent masonry (clay brick). On non-structurally-sound substrates install a suitable plaster lath. Knock mould marks/flashings off concrete surfaces. Concrete surfaces and low-absorbent substrates require application of Rajasil SPB in a web like pattern as bonding bridge; mixed masonry and lightweight wood shavings construction boards require fully covering application of Rajasil SPB. Prime highly absorbent substrates with Rajasil TG W. Level flaws in the masonry and larger indentations prior to actual render application; trowel flush with the surface, comb scratch during setting process and allow to cure.																
Application and Substrate Temperature:	+ 5 °C minimum; lower temperatures during the curing phase can have a sustained negative effect on product properties. With high temperatures (and/or strong wind), additional measures are necessary to prevent premature loss of mixing water.																
Preparation of the Product:	Mix to a lump free consistency in a mixing pump or, alternatively, manually or using a power stirrer in a clean mortar bucket. Hopper mixers are also suitable.																
Application:	Apply using plastering machine or manually. Thoroughly pre-wet masonry before render application according to absorbency of the substrate and weather conditions. In a first pass, apply Rajasil KGP onto pale-damp masonry surface. Once this layer begins to set, throw on another layer of Rajasil KGP wet-on-damp until required thickness of basecoat is obtained. Observe the wall building material manufacturers' recommendations! Surface treatment: <ul style="list-style-type: none"> – If a thin-layer textured render is to be applied as finishing coat, vertically and horizontally level and smooth surface with h-profile feather edge (smoothing board) immediately after render application. – If application of either a Rajasil EP WD mineral render or another coat of Rajasil KGP is planned as finishing coat, vertically and horizontally level and smooth surface with h-profile feather edge and comb scratch/roughen during setting process. Render thickness: With exterior application observe the overall render thickness (basecoat and finishing coat) of 20mm required by former DIN V 18 550. Per-coat render thickness: Exterior application: 8 to 15mm Interior application: 10 to 15mm Maximum overall render thickness: 30mm																

Application:	Application on wall bases: Refurbishment of old buildings: Render moist, salt-contaminated masonry (above grade) with Rajasil SP3 or SP4 (see respective Technical Data Sheets). New Buildings: For wall bases we recommend the use of Rajasil LSP.
After Treatment:	Protect freshly applied mortar from premature loss of mixing water.
Surface Coating:	With exterior application, render must be coated with a water-repellent system. Suitable for this are mineral-bonded finishing coats CS I in accordance with DIN EN 998-1 (P II according to former DIN V 18 550) and silicate renders. In case of high driving-rain exposure (categories II and III of DIN 4108) use renders of category CS II or III in accordance with DIN EN 998-1, e.g. Rajasil MLP. If curing process proceeds normally, low-tension-curing, open-porous systems, e.g. Rajasil SIF, can be applied after approx. 14 days. Paint coats on Rajasil KGP must be applied in several thin layers (one first and one top coat minimum); observe respective Technical Data Sheets.
Cleaning of Tools:	immediately after use, with water
Safety Instructions:	Rajasil KGP contains partially hydraulic lime and thus reacts alkaline when fresh. Avoid contact with eyes and skin. Protect eyes and skin. If product gets on skin, wash off immediately. If product gets in eyes, thoroughly rinse with water immediately 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.
Storage:	Store in a dry place; shelf-life in original container: approx. 9 months. Low chromate conforming to TRGS 613
Quality Control:	Constant monitoring of production through laboratory analyses.



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