

## Technical Data Sheet

# Rajasil UGP

(Multi-Purpose Basecoat Render)

<b>Rajasil UGP:</b>	Dry factory-mixed mortar, mineral basecoat render, GP, CS II, W 0 in accordance with DIN EN 998-1 (P II according to former DIN V 18 550)																		
<b>Properties:</b>	To be processed manually and using a plastering machine; highly open to water vapour diffusion; not water-repellent																		
<b>Areas of Application:</b>	<p>For interior and exterior application; not suitable for wall bases.</p> <p>On conventional masonry and concrete; not, however, on lightweight masonry, such as Poroton or aerated concrete; as basecoat (undercoat) for mineral finishing coats CS I to III in accordance with DIN EN 998-1 (P I / P II according to former DIN V 18 550) and silicate renders; as one-coat plaster for interior use e.g. in bathrooms and kitchens.</p> <p>For wall bases, we recommend Rajasil ZP or Rajasil LSP; please observe the respective Technical Data Sheets.</p> <p>Responsibility for any usage outside these areas of application lies solely with the user.</p>																		
<b>Composition:</b>	white lime hydrate; cement; carefully composed limestone sands; max. grain size approx. 2mm																		
<b>Coverage:</b>	approx. 1.5kg dry mortar / m <sup>2</sup> / mm render thickness																		
<b>Technical Parameter:</b>	<table border="1"> <tr> <td>Mortar group</td> <td>GP, CS II in accordance with DIN EN 998-1</td> </tr> <tr> <td>Gross density of set mortar</td> <td>1,3 – 1,4 kg/dm<sup>3</sup></td> </tr> <tr> <td>Flexural strength</td> <td>1,5 – 2,5 N/mm<sup>2</sup></td> </tr> <tr> <td>Compressive strength</td> <td>approx. 4,0 N/mm<sup>2</sup></td> </tr> <tr> <td>e-module</td> <td>4500 – 6500 N/mm<sup>2</sup></td> </tr> <tr> <td>Calculation value for thermal conductivity λ<sub>R</sub> (DIN 4108)</td> <td>0,87 W/(mK)</td> </tr> <tr> <td>w-value</td> <td>&gt; 2,0 kg/m<sup>2</sup>h<sup>0,5</sup></td> </tr> <tr> <td>c-value</td> <td>c ≥ 0,20 kg/m<sup>2</sup> x min<sup>0,5</sup>, W 0 in accordance with DIN EN 998-1</td> </tr> <tr> <td>μ-value</td> <td>approx. 10</td> </tr> </table>	Mortar group	GP, CS II in accordance with DIN EN 998-1	Gross density of set mortar	1,3 – 1,4 kg/dm <sup>3</sup>	Flexural strength	1,5 – 2,5 N/mm <sup>2</sup>	Compressive strength	approx. 4,0 N/mm <sup>2</sup>	e-module	4500 – 6500 N/mm <sup>2</sup>	Calculation value for thermal conductivity λ <sub>R</sub> (DIN 4108)	0,87 W/(mK)	w-value	> 2,0 kg/m <sup>2</sup> h <sup>0,5</sup>	c-value	c ≥ 0,20 kg/m <sup>2</sup> x min <sup>0,5</sup> , W 0 in accordance with DIN EN 998-1	μ-value	approx. 10
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<b>Substrate/Preparation of the Substrate:</b>	<p>All substrates must be dry, stable, structurally sound, free from dust and frost, absorbent, and free from separating substances (e.g. formwork oils).</p> <p>Thoroughly moisten normally absorbent masonry (clay brick). On non-structurally-sound substrates install a suitable plaster base. Knock mould marks/flashings off concrete surfaces.</p> <p>Concrete surfaces and low-absorbent substrates require Rajasil SPB as bonding bridge; mixed masonry and lightweight wood shavings construction boards require fully-covering application of Rajasil SPB.</p> <p>Level hollow joints, flaws in the masonry and indentations prior to actual render application; trowel flush with the surface, comb scratch during setting process and allow to cure.</p>																		
<b>Application and Substrate Temperature:</b>	<p>+ 5 °C minimum; lower temperatures during the curing phase can have a sustained negative effect on product properties.</p> <p>With high temperatures (and/or strong wind), additional measures are necessary to prevent premature loss of mixing water.</p>																		
<b>Application:</b>	<p>Application thickness:</p> <p>Exterior surfaces: per-coat thickness: 8mm min., 20mm max; observe overall render thickness of 20mm (basecoat and finishing coat) as required by former DIN V 18 550.</p> <p>Interior surfaces: 10mm minimum for one-coat application</p> <p>Add dry mortar to required amount of tap water in a clean mortar bucket and manually or using a power stirrer mix to a lump-free consistency.</p> <p>Application using mixing pumps is also possible.</p> <p>Apply Rajasil UGP onto prepared substrate in two passes. First, apply a render layer of approx. 8 to 10mm thickness. Once this layer begins to set, apply a second layer wet-on-damp to obtain the required render thickness.</p> <p>On surfaces prone to tearing/cracking (e.g. roller shutter casings etc.), embed Rajasil AGG into upper third of render layer; make sure edges of mesh overlap by 10cm.</p> <p>Curing time prior to application of additional coatings: 1 day per mm of render thickness; or at least 10 days with render thicknesses above 10mm, depending on curing and drying conditions.</p>																		

<b>Application:</b>	<p>Surface treatment:</p> <ul style="list-style-type: none"> <li>- If a thin-layer textured render, e.g. HECK ED, 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.</li> <li>- If Rajasil EP WD is to be applied as finishing coat, or in case of multi-coat application, additionally comb scratch surface during setting process.</li> <li>- Use as finishing coat: texture surface by e.g. rubbing down with felt float.</li> </ul>
<b>After Treatment:</b>	Protect freshly applied mortar from premature loss of mixing water (sun, wind, high temperatures), and from frost and rain.
<b>Surface Coating:</b>	All mineral-bonded, water-repellent Rajasil and HECK finishing coats. Suitable as substrate for tiling using the thin-bed method (interior walls only).
<b>Cleaning of Tools:</b>	Immediately after use, with water
<b>Safety Instructions:</b>	Rajasil UGP contains lime and cement and thus reacts alkaline. Avoid contact with 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. Keep product out of the reach of children. If product is swallowed, seek medical attention immediately. Wear suitable protective gloves during work. For further information see Safety Data Sheet.
<b>Storage:</b>	Store in a dry place; shelf-life in original container: approx. 9 months. Low chromate conforming to TRGS 613
<b>Quality Control:</b>	Constant monitoring of production through laboratory analyses.



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