

Technical Data Sheet

Rajasil TYPE F

(Bonding and Repair Render)

Rajasil TYPE F:	Dry factory-mixed mortar, basecoat render GP, CS II, W 0 in accordance with DIN EN 998-1 (P II according to former DIN V 18 550)																		
Properties:	Can be applied manually or with plastering machine; purely mineral; can be applied without bonding bridge (scratch coat) even on smooth substrates; water vapour permeable ($\mu = 15$) Colour: grey																		
Areas of Application:	For interior and exterior use; not for use on wall bases. Bonding render and repair mortar for concrete surfaces; also suitable for use on conventional masonry; not on lightweight masonry such as aerated brick and aerated concrete. <ul style="list-style-type: none"> as basecoat render (undercoat) for mineral finishing coats CS I-III in accordance with DIN EN 998-1 (P I/P II according to former DIN V 18 550) and silicate renders. as single-coat plaster for interior walls in e.g. bathrooms and kitchens For wall bases we recommend Rajasil ZP or Rajasil LSP. Responsibility for any usage outside these areas of application lies solely with the user.																		
Composition:	white lime hydrate; cement; carefully selected limestone sands up to a 2mm max. grain size; adhesion-enhancing additives																		
Technical Parameter:	<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/dm³</td> </tr> <tr> <td>Flexural strength</td> <td>1,5 – 2,5 N/mm²</td> </tr> <tr> <td>Compressive strength</td> <td>approx. 4,0 N/mm²</td> </tr> <tr> <td>e-module</td> <td>4500 – 6500 N/mm²</td> </tr> <tr> <td>Calculation value for thermal conductivity λ_R (DIN 4108)</td> <td>0,87 W/(m·K)</td> </tr> <tr> <td>w-value</td> <td>> 2,0 kg/m²h^{0,5}</td> </tr> <tr> <td>c-value</td> <td>$c \geq 0,20 \text{ kg/m}^2 \times \text{min}^{0,5}$, W 0 in accordance with DIN EN 998-1</td> </tr> <tr> <td>μ-value</td> <td>approx. 15</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 ³	Flexural strength	1,5 – 2,5 N/mm ²	Compressive strength	approx. 4,0 N/mm ²	e-module	4500 – 6500 N/mm ²	Calculation value for thermal conductivity λ_R (DIN 4108)	0,87 W/(m·K)	w-value	> 2,0 kg/m ² h ^{0,5}	c-value	$c \geq 0,20 \text{ kg/m}^2 \times \text{min}^{0,5}$, W 0 in accordance with DIN EN 998-1	μ -value	approx. 15
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Coverage:	approx. 1.5kg dry mortar / m ² / mm render thickness Yield: 30kg of dry mortar equal 20 litres of wet mortar																		
Substrate/Preparation of the Substrate:	All substrates must be dry, stable, structurally sound, free from dust, absorbent and free from any separating substances (e.g. formwork oil). Thoroughly moisten normally absorbent masonry (clay brick). Install a suitable render base on nonstructurally-sound substrates. Knock mould marks/flashings off concrete surfaces. If a sinter skin is present, remove it (e.g. by sanding). The application of a bonding bridge is not necessary even on smooth substrates, e.g. smooth concrete surfaces; however, in such cases overall render thickness is limited to 10mm. Mixed masonry and lightweight boards made from wood shavings require the fully-covering application of Rajasil SPB. Level hollow joints, flaws in the masonry and indentations prior to actual render application; trowel flush with the surface; roughen 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.																		
Application:	Application thickness: 5 - 10mm per coat (on rough, absorbent substrates up to 15mm). 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. Application using mixing pumps is also possible. Apply Rajasil TYPE F onto prepared substrate in two passes. First, apply a render layer of approx. 5mm thickness. Once this layer begins to set, apply a second layer wet-on-damp to obtain the required render thickness. Rajasil TYPE F can also be trowelled on like a putty. On surfaces prone to tearing/cracking (e.g. roller shutter casings, lightweight wood shavings boards etc.), embed Rajasil AGG into upper third of render layer; allow edges to overlap at least 10 cm.																		

Application:	<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> <p>Surface treatment:</p> <ul style="list-style-type: none"> • 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. • If Rajasil EP WD is to be applied as finishing coat, or in case of multi-coat application, in addition comb scratch surface during setting process. <p><u>Use as finishing coat:</u> After levelling the mortar, carefully felt-float finish or texture using steel float or block brush.</p>
After Treatment:	Protect freshly applied mortar from premature loss of mixing water (sun, wind, high temperatures), and from frost and rain.
Surface Coating:	mineral-bonded, water-repellent finishing coats, such as Rajasil EP WD, HECK ED, HECK SIP, HECK SHP, as well as e.g. Rajasil SHF.
Notes:	To prevent damage to rendered surfaces, we recommend using only water-repellent finishing coats for exterior surfaces.
Cleaning of Tools:	immediately after use, with water.
Safety Instructions:	<p>Rajasil TYPE F 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, rinse with water immediately and seek medical attention. If product is swallowed, seek medical attention immediately. Wear suitable protective gloves during work. Keep product out of the reach of children. For further information see Safety Data Sheet.</p>
Storage:	Store in a dry place; shelf-life in original container: approx. 9 months.
Quality Control:	Constant monitoring of production through laboratory analyses; internal and external controls at regular intervals.



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