

Technical Data Sheet

Rajasil HM

(Bonding Mortar)

Rajasil HM:	Mineral, lime-cement based reinforcement compound GP, CS IV, W 2 in accordance with DIN EN 998-1 (P III according to former DIN V 18 550)
Properties:	<ul style="list-style-type: none"> – very good bonding properties – can be felt-float finished – can be applied manually but also using plastering machine and conveying systems – water vapour permeable and water-repellent – colour: grey
Areas of Application:	<p>For exterior and interior application; can be used on wall bases.</p> <p>As reinforcement or renovation compound and as thin-layer render (3-5mm) for application directly onto concrete, even masonry and stable mineral renders CS III and IV in accordance with DIN EN 998-1 (P II, III according to former DIN V 18 550) as well as on structurally sound synthetic resin renders or dispersion coatings.</p> <p>As bonding bridge on e.g. XPS-R boards or smooth concrete and render surfaces; for the adhesive bonding of insulation boards (not as part of EIF systems), precision building blocks, stucco mouldings, tiles; also as masonry mortar (G, M 10, W 2 in accordance with DIN EN 998-2) for conventional masonry.</p> <p>Responsibility for any usage outside these areas of application lies solely with the user.</p>
Composition:	white lime hydrate; cement; carefully composed aggregates; maximum grain size 1.0mm approx; admixtures for the improvement of workability, adhesive strength and water-repelling properties; fibres
Coverage:	approx. 1.4kg dry mortar / m ² per mm of layer thickness
Substrate/Preparation of the Substrate:	<p>Substrate has to be even, structurally sound, clean, dry and free from grease and dust. Cleaning is recommended. In general, remove brittle or insufficiently adhering render as well as loosely adhering paint remnants and algae. Repair surface defects (observe curing time).</p> <p>For this, check strength of existing render in wet and dry condition as well as adhesion to basecoat/ masonry. With paint coats, perform cross-cut test and adhesive tape test.</p> <p>Prime superficially sanding, chalking, highly absorbing, organic bonded substrates (saponification resistant) once with Rajasil TG W; deep-strengthen brittle renders with Rajasil PF if necessary.</p> <p>Roughen smooth Styrodur boards and sweep clean.</p> <p>Tear-strength testing:</p> <p>Trowel-apply Rajasil HM onto test surface in approx. 5mm thickness using a steel trowel. Embed Rajasil AGG into centre of layer; allow at least 40cm of the mesh to protrude from the material at the lower side.</p> <p>After about 1 week, pull the loose end of the mesh upwards. If separation takes place inside the bonding mortar layer, the substrate is suitable.</p>
Application and Substrate Temperature:	<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>
Application:	<p>Render thickness: at least 3mm per coat, 5mm max.</p> <p>Using a power stirrer, mix content of one bag with the required amount of tap water in a clean mortar bucket until a lump-free consistency is obtained; allow to sit for 10 minutes; stir up thoroughly again before application and use up within 2 hours.</p> <p>In case of application with a plastering machine, we recommend using a secondary mixer.</p> <p>Reinforcement:</p> <p>Apply mortar in required thickness using a stainless-steel trowel. Then, embed HECK AGG FINE into center (allow mesh to overlap at least 10cm); apply some additional mortar, if necessary. For the subsequent application of thin-layer finishing coats, even out surface with a PU float or stainless-steel trowel; make sure mesh is not exposed.</p> <p>If Rajasil HM is to form the topmost layer, finely felt-float finish it.</p> <p>Bonding bridge:</p> <p>Apply mortar to a thickness of approx. 5mm; embed Rajasil AGG centrally; make sure edges overlap by 10cm. After mortar has set, scratch horizontally (about 2mm into the material) with a notched trowel (4x4mm notch) or a plaster comb; make sure mesh is not exposed.</p>
After Treatment:	Protect freshly applied mortar from premature dehydration (sun, wind, high temperatures), frost and rain. Prior to subsequent coating, where applicable apply the primer appropriate for the finishing coat used. Curing time prior to application of priming or finishing coat: 1 day per mm of layer thickness, depending on weather conditions.

Surface Coating:	HECK or Rajasil finishing coats or conventional facade paints such as Rajasil SIF, Rajasil SHF or HECK FF UNI.
Notes:	– Please observe complemental Technical Data Sheets. Protect render system on surfaces in contact with the ground from rear moisture intrusion. This can be done using Rajasil DS FLEX.
Safety Instructions:	Rajasil HM contains lime and cement and thus reacts alkaline when fresh. Avoid contact with 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.
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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