

Technical Data Sheet

Rajasil MLP

(Lightweight Mineral Render)

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| Rajasil MLP: | Mineral basecoat render and finishing coat; dry factory-mixed mortar LW, CS II, W 2 in accordance with DIN EN 998-1 (P II according to former DIN V 18 550) Colour: grey | | | | | | | | | | | | | | | | | | |
| Properties: | low-tension curing; can be applied manually or with plastering machine; highly water vapour permeable; water-repellent | | | | | | | | | | | | | | | | | | |
| Areas of Application: | for interior and exterior application, specially suited for thermally-insulating lightweight masonry and mixed masonry; but also on clay brick masonry, lime sand brick and concrete. – as basecoat (undercoat) for HECK and Rajasil mineral finishing coats – as one-coat plaster for interior application in e.g. bathrooms and kitchens For use on wall bases we recommend Rajasil LSP. Responsibility for any usage outside these areas of application lies solely with the user. | | | | | | | | | | | | | | | | | | |
| Composition: | white lime hydrate; cement; carefully composed limestone sands and lightweight mineral aggregates; max. grain size 2.0mm; admixtures for optimal workability and water-repellent properties | | | | | | | | | | | | | | | | | | |
| Technical Data: | <table border="1"> <tr> <td>Mortar group</td> <td>LW CS II in accordance with DIN EN 998-1</td> </tr> <tr> <td>Cured mortar gross density kg/dm³</td> <td>1,1 – 1,2 kg/dm³</td> </tr> <tr> <td>Flexural strength N/mm²</td> <td>1,5 – 1,8 N/mm²</td> </tr> <tr> <td>Impact resistance N/mm²</td> <td>2,5 – 3,5 N/mm²</td> </tr> <tr> <td>E – module N/mm²</td> <td>5500 – 6500 N/mm²</td> </tr> <tr> <td>Rake thermal conductivity λ_R (DIN 4108)</td> <td>0,40 W/(m·K)</td> </tr> <tr> <td>w - value</td> <td>< 0,50 kg/m²h^{0,5}</td> </tr> <tr> <td>c - value</td> <td>c ≤ 0,20 kg/(m²·h^{0,5}), W 2 in accordance with DIN EN 998-1</td> </tr> <tr> <td>μ - value</td> <td>ca. 10</td> </tr> </table> | Mortar group | LW CS II in accordance with DIN EN 998-1 | Cured mortar gross density kg/dm ³ | 1,1 – 1,2 kg/dm ³ | Flexural strength N/mm ² | 1,5 – 1,8 N/mm ² | Impact resistance N/mm ² | 2,5 – 3,5 N/mm ² | E – module N/mm ² | 5500 – 6500 N/mm ² | Rake thermal conductivity λ_R (DIN 4108) | 0,40 W/(m·K) | w - value | < 0,50 kg/m ² h ^{0,5} | c - value | c ≤ 0,20 kg/(m ² ·h ^{0,5}), W 2 in accordance with DIN EN 998-1 | μ - value | ca. 10 |
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| Coverage: | approx. 1.2kg dry mortar / m ² / mm render thickness | | | | | | | | | | | | | | | | | | |
| Substrate/Preparation of the Substrate: | All substrates must be dry, stable, structurally sound, free from dust and frost, absorbent, and free from separating substances (e.g. formwork oils). Thoroughly moisten normally absorbent masonry (clay brick). On non-structurally-sound substrates install a suitable plaster base. Knock mould marks/flashings off concrete surfaces. Concrete surfaces and low-absorbent substrates require Rajasil SPB in a web like pattern as bonding bridge; mixed masonry and lightweight wood shavings construction boards require a fully covering application of Rajasil SPB. Prime aerated concrete (highly absorbent) with Rajasil TG W. 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. | | | | | | | | | | | | | | | | | | |
| 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 Exterior surfaces: per-coat thickness: 8mm min, 20mm max. Observe overall render thickness of 20mm (basecoat and finishing coat) as required by DIN 18 550. Interior surfaces: 10mm minimum for one-coat application Maximum overall render thickness allowed: 30mm 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 (use of a secondary mixer is recommended). | | | | | | | | | | | | | | | | | | |

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| Application: | <p>Apply Rajasil MLP 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> <p>Surface treatment:</p> <ul style="list-style-type: none"> - If a thin-layer textured render, e.g. HECK STR, 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. - Use as finishing coat: After levelling the mortar, carefully felt-float finish or texture using trowel and block brush. |
| After Treatment: | Protect freshly applied mortar from premature loss of mixing water (sun, wind, high temperatures), and from frost and rain. |
| Surface Coating: | water-repellent, water-vapour permeable Rajasil and HECK finishing coats. Tiling using thin-bed method possible (interior). |
| Cleaning of Tools: | immediately after use, with water |
| Notes: | <p>To prevent damages to render, we recommend the exclusive use of water-repellent finishing coats on exterior surfaces. In this way a water-repellent render system according to former DIN V 18 550 is obtained.</p> <p><u>Use as finishing coat:</u> Due to the usage of mineral raw materials, follow-up deliveries may vary in colour shade. Only use material from the same production batch for continuous surfaces, especially if no surface coating is performed. Variations in colour shade and surface texture over the course of time due to weather factors, e.g. UV impact, and environmental factors, e.g. atmospheric particles, are not covered by warranty. Technical functionality remains unaffected. Under adverse conditions, the possibility of the formation of micro-organisms, such as algae, cannot be ruled out; this does not constitute a reason for complaint.</p> |
| Safety Instructions: | <p>Rajasil MLP 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. 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. Low chromate conforming to TRGS 613 |
| Quality Control: | Constant monitoring of production through laboratory analyses. |



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