

# Technical Data Sheet

## Rajasil Kalkputz WA

(Lime Render)

**Rajasil Kalkputz WA:**

Dry factory-mixed mortar GP, CS II, W 0 in accordance with DIN EN 998-1 (P II according to former DIN V 18 550), with a hydraulic-lime binder.

Colour: beige

Lime Renders "mittel" and "fein" also available as CS I, W 0 in accordance with DIN 998-1 (P I in accordance with former DIN V 18 550). Rajasil lime renders are available coloured, with a bonding additive and with additional flax fibres.

**Technical Data:**

Mortar group GP, CS II, W 2 with DIN EN 998-1, (P II with former DIN V 18550)	Coarse max. grain size approx. 8,0 mm	medium max. grain size approx. 3,5 mm	Fine max. grain size approx. 1,0 mm
Cured mortar gross density	approx. 1,75 kg/dm <sup>3</sup>	approx. 1,45 kg/dm <sup>3</sup>	1,2 kg/dm <sup>3</sup>
Flexural strength	approx. 1 N/mm <sup>2</sup>	approx. 1 N/mm <sup>2</sup>	approx. 1 N/mm <sup>2</sup>
Impact resistance	approx. 3,5 N/mm <sup>2</sup>	approx. 3,0 N/mm <sup>2</sup>	approx. 2,5 N/mm <sup>2</sup>
Rake DIN 4108 thermal conductivity	0,89 W (m-K)	0,89 W (m-K)	0,89 W/(m-K)
E - module	approx. 7000 N/mm <sup>2</sup>	approx. 4500 N/mm <sup>2</sup>	approx. 2800 N/mm <sup>2</sup>
c - value (capillary water absorption)	< 0,2 kg/(m <sup>2</sup> ·min0,5)	< 0,2 kg/(m <sup>2</sup> ·min0,5)	< 0,2 kg/(m <sup>2</sup> ·min0,5)
μ - value	approx. 10	approx. 8	approx. 8

**Areas of Application:**

**Basecoat** for mineral finishing coats.

**Finishing coat**, to be left "as is" or for coating with open-porous, low-tension curing coating systems.

Without additional protection not to be used on surfaces exposed to harsh weather conditions.

**Not for use on wall bases!**

Responsibility for any usage outside these areas of application lies solely with the user.

**Coverage:**

Approx. 1.5kg powder / m<sup>2</sup> / mm render thickness

**Yield:**

30kg powder will yield approx. 20 litres wet mortar

**Substrate:**

Make sure all substrates are sufficiently structurally sound, free from dust, and absorbent.

**Preparation of the Substrate:**

Clean dust and loose particles off substrate. Remove brittle joint mortar to a depth of approx. 2cm. Apply Rajasil Spritzbewurf in a web-like pattern. Mixed masonry or low-absorbent masonry requires the application of a bonding bridge with Rajasil Spritzbewurf (fully covering). Moisten masonry prior to the application of Rajasil Spritzbewurf; make sure it is sufficiently hardened before proceeding. On surfaces made from lightweight wood shavings boards, e.g. panels of roller-shutter casings, special measures are necessary to prevent the formation of cracks (see DIN EN 13168). Observe recommendations of wall construction material manufacturer!

**Application and Substrate Temperature:**

+ 5 °C minimum; lower temperatures during the curing phase can have a sustained negative effect on product properties.

With high environmental 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 using a mixing pump or manually/with power stirrer in a clean mortar bucket. Hopper mixers are also suitable.

**Application:**

Apply using a plastering machine or manually; Rajasil Kalkputz WA grob can only be applied manually. Cast hollow areas, holes and larger indentations with Rajasil Kalkputz WA mittel (or, better, grob/coarse) prior to actual render application. Allow this levelling render layer to cure thoroughly before continuing with render application. Thoroughly roughen surface during stiffening process.

**Basecoat:**

Depending on absorbency and weather conditions, thoroughly moisten masonry prior to render application. Then, in a first step, apply Rajasil Kalkputz WA onto the pale-damp masonry surface. Once this layer begins to set, cast on another layer of mortar wet-on-damp until required basecoat thickness is obtained.

Observe recommendations of wall construction material manufacturer!

**Surface Treatment:**

- If it is planned to apply a mineral, thin-layer, textured finishing coat, vertically and horizontally level and smooth surface with h-profile feather edge (smoothing board) immediately after render application.
- If it is planned to apply a HECK mineral decorative render or another coat of Rajasil Kalkputz WA as finishing coat, vertically and horizontally level and smooth surface with h-profile feather edge and thoroughly comb scratch/key horizontally during stiffening process.

<b>Application:</b>	<p>c) Use as finishing coat After allowing for a drying time for the basecoat of 1 day/mm, 14 days minimum, Rajasil Kalkputz WA can be applied as finishing coat for various render finishes:</p> <p>"Altdeutscher Putz", traditional "old German style" finish (Kalkputz WA mittel/medium) Using a trowel, throw on mortar evenly; afterwards, rework using a block brush and not too much water.</p> <p>Felt-float finish (Kalkputz WA fein) Finishing coat thickness 6mm max. Do not use too much water for felt-float finishing or smoothing. And, do not "over-finish" to prevent binder agglomerations on the surface.</p>
<b>Application:</b>	<p><u>Render thickness:</u> On exterior surfaces, observe the overall render thickness (basecoat and finishing coat) of 20mm required by former DIN V 18 550. Per-coat render thickness: Kalkputz WA grob 10 - 25mm (not machine applicable) Kalkputz WA mittel 8 - 25mm Kalkputz WA fein 8 - 25mm</p> <p><u>Water-repellent render systems:</u></p> <ol style="list-style-type: none"> <li>1. Apply a water-repellent mineral render, e.g. HECK Edelputz WD, as finishing coat.</li> <li>2. Non-water-repellent finishing coats, and coats with an open, grooved texture, are coated with an open-porous, water-repellent paint coat or an impregnation, e.g. Rajasil Silikonharzfarbe, Rajasil Silikat-Fassadenfarbe, Rajasil Siloxan-Fassadenimprägnierung, Rajasil Fassadenimprägnierung W.</li> </ol> <p><u>Wall bases:</u> <i>Refurbishment of old buildings:</i> On moist, salt-contaminated masonry, apply a Rajasil renovation render system, starting above grade, up to at least 80cm above moist or salt-contaminated areas (refer to Technical Data Sheets of Rajasil renovation render systems). <i>New buildings:</i> For wall bases, we recommend Colfirmat Leichtsockelputz.</p>
<b>After Treatment:</b>	<p><b>Due to the slow curing process, perform after treatment with particular care in order to prevent premature loss of mixing water.</b></p> <p>Protect freshly applied render from premature dehydration (sun, wind, high temperatures) and from rain and frost.</p>
<b>Subsequent Surface Coating:</b>	<p>Rajasil Kalkfarbe can be applied directly onto fresh lime render or after the render has dried. Given a normal curing process, low-tension curing, open-porous systems, such as Rajasil Silikat-Fassadenfarbe, can be applied after approx. 14 days.</p> <p>Apply paint coats on Rajasil Kalkputz WA in several thin-layer coats (at least one prime and top coat respectively).</p>
<b>Notes:</b>	<p>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.</p> <p>Variations in colour shade and surface texture over the course of time due to weather and environmental factors, e.g. atmospheric particles, are not covered by warranty. Technical functionality remains unaffected.</p> <p>Under adverse conditions, the possibility of the formation of micro-organisms, such as algae, cannot be ruled out if applied as finishing coat; this does not constitute a reason for complaint.</p>
<b>Safety Instructions:</b>	<p>Rajasil Kalkputz WA contains 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.</p>
<b>Storage:</b>	<p>Store in dry place; shelf-life in original container: approx. 9 months.</p>
<b>Quality Control:</b>	<p>Internal and external controls at regular intervals.</p>



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