

# Technical Data Sheet

## Rajasil SM Vario

(Spray-applied Mortar)

**Rajasil Spritzmörtel Vario:** 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 increased sulphate resistance.

**Areas of Application:** Suitable for the jointing and rendering of natural stone masonry in cases where the surface structure of the substrate is to be brought out rather than evened out/levelled; especially suited for dry-spraying application. Product can be supplied colourised after samples taken from joints and/or brickwork (base colour: grey). Also suitable for masonry preparation (deep jointing and fully-covering levelling render layer in one step) prior to the application of vertical sealing, e. g. using Rajasil Dickbeschichtung and Rajasil 2 K-Dickbeschichtung. Rajasil Spritzmörtel Vario is also suitable for brick laying (G, M 5 in accordance with DIN EN 998-2).  
The responsibility for any usage exceeding these areas of application lies solely with the user.

**Composition:** highly sulphate-resistant cement; quartz sands up to 3.5mm max. grain size Colour: grey; limited colour selection with base colour grey

**Technical Parameters:**

Mortar group	M 5 with DIN EN 998-2
Gross density of set mortar	1,8 – 1,9 kg/dm <sup>3</sup>
Flexural strength	1,9 – 2,0 N/mm <sup>2</sup>
Compressive strength	approx. 5 N/mm <sup>2</sup>
e-module	9.500 – 12.000 N/mm <sup>2</sup>
w-value	3,0 – 4,0 kg/m <sup>2</sup> ·h <sup>0.5</sup>
μ-value	20

**Coverage:** Jointing: Coverage depends on depth and width of joints and can only be determined on a test panel.  
Rendering: approx. 15 kg/m<sup>2</sup>/cm

**Yield:** 10kg of dry mortar yield approx. 6.5 litres of wet mortar.  
If product is applied using the dry-spraying method, application- and cleaning-related wastage of about 20 percent has to be taken into account.

**Preparation of the Substrate:** The substrate has to be stable, structurally sound and free from loose particles, dust and dirt. Substrate preparation using a suitable blasting/abrasive jet method is recommended. If product is applied using the wet-spraying method, the application of a bonding bridge (Rajasil Spritzbewurf in a web-like pattern), is required.

**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.

**Application:** Rajasil Spritzmörtel Vario is suitable for pneumatic conveying using the dry-spraying method and can be applied using conventional dry-spraying machines. During application, observe a maximum nozzle/surface distance of one meter and a spraying angle of approx. 90 degrees.  
Manual application: Mixing for manual application is performed using a turbomixer or a power stirrer. Steadily add water in even dosages and properly adjust consistency of the mortar for jointing.  
Under certain conditions, mixing pump machines, e.g. PFT G4, can also be used.  
Maximum render thickness when applied using wet-spraying method: 15mm per layer.

**After Treatment:** Protect freshly jointed/rendered brickwork adequately from premature dehydration (sun, wind, high temperatures), rain and frost. Depending on weather conditions, Rajasil Spritzmörtel Vario has to be kept damp over the course of several days.

**Notes:** The final colour after drying and curing depends on the absorbency of the brickwork and the application and curing conditions. We therefore recommend setting up a test panel when doing jointing or rendering work.  
Due to the usage of mineral raw materials, follow-up deliveries may vary in colour shade. We therefore strongly recommend to only use material from the same production batch for continuous surfaces, especially when no surface coating is planned.

<b>Notes:</b>	<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; this does not constitute a reason for complaint.</p>
<b>Safety Instructions:</b>	<p>Rajasil Spritzmörtel Vario contains lime and cement and thus react 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 flush 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 a dry place; shelf-life in original container: approx. 6 months. Low chromate conforming to TRGS 613</p>
<b>Quality Control:</b>	<p>External and internal controls at regular intervals.</p>



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