

## Technical Data Sheet

# Rajasil FM HS NA

(Joint Mortar)

<b>Rajasil FM HS NA:</b>	Minaeral, sulphate resistant dry factory mixed mortars G, mortar group M 5, in accordance with DIN EN 998-2. Rajasil FM HS NA has increased sulphate resistance properties and is low in alkaline. If necessary for a particular application, Rajasil FM HS NA can also be equipped with water-repellent properties.														
<b>Areas of Application:</b>	Jointing of facing brickwork (natural stone, clay brick, clinker brick) and brick linings. Not suitable for horizontal surfaces, such as floorings. The responsibility for any usage exceeding these areas of application lies solely with the user.														
<b>Composition:</b>	Lime, Cement HS NA, quartz sands 0-1 mm respectively 0-3 mm, water-repellent, adhesive additive, pigments as desired When ordering, make sure to include the following information based on the above table: – grain size range – adhesion-increasing admixture – water-repellent properties – colour (see Rajasil joint mortar sample case (Fugenmörtelkasten) for standard colours) With follow-up deliveries an exact match of colour shades cannot be guaranteed.														
<b>Technical Parameters:</b>	<table border="1"> <tr> <td>Mortar group</td> <td>M 5 with DIN EN 998-2</td> </tr> <tr> <td>Gross density of set mortar</td> <td>1,7 kg/dm<sup>3</sup></td> </tr> <tr> <td>Flexural strength</td> <td>2,5 N/mm<sup>2</sup></td> </tr> <tr> <td>Compressive strength</td> <td>6,5 – 7,5 N/mm<sup>2</sup></td> </tr> <tr> <td>e-module</td> <td>8500 - 9000 N/mm<sup>2</sup></td> </tr> <tr> <td>w-value</td> <td>5,0 kg/m<sup>2</sup>·h<sup>0,5</sup> &lt; 0,5 kg/m<sup>2</sup>·h<sup>0,5</sup> with water-repellant additives</td> </tr> <tr> <td>μ-value</td> <td>20 - 30</td> </tr> </table>	Mortar group	M 5 with DIN EN 998-2	Gross density of set mortar	1,7 kg/dm <sup>3</sup>	Flexural strength	2,5 N/mm <sup>2</sup>	Compressive strength	6,5 – 7,5 N/mm <sup>2</sup>	e-module	8500 - 9000 N/mm <sup>2</sup>	w-value	5,0 kg/m <sup>2</sup> ·h <sup>0,5</sup> < 0,5 kg/m <sup>2</sup> ·h <sup>0,5</sup> with water-repellant additives	μ-value	20 - 30
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<b>Coverage:</b>	Depends on depth and width of joints. Average value: approx. 10kg per 1.5m <sup>2</sup> of joint surface (brick or clinker brick masonry) 1kg of dry mortar yields approx. 0.8 litres of wet mortar.														
<b>Preparation of the Substrate:</b>	Prior to jointing, fill blemishes and discontinuities in and around joints with a suitable mortar in order to make sure the joint mortar can be compacted well at a joint depth of approx. 2cm. Prepare existing joints in such a way that the joint mortar can be applied with a mean thickness of at least 2cm (depending on joint width). After the mechanical work, use a water jet to thoroughly clean joints from dust and loose particles.														
<b>Application and Substrate Temperature:</b>	+ 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.														
<b>Preparation of the Product:</b>	Adding water evenly, mix mortar using turbomixer or power stirrer to allow the required pore volume to develop. Adjust to a more plastic consistency than you would with traditional mortars, which normally are applied in earth dry consistency.														
<b>Application::</b>	Clean joints thoroughly and pre-wet. The prepared mortar can then be applied using conventional tools. Do not smooth the joint surface too much.														
<b>Notes:</b>	As a general rule, a jointing test - to determine whether colour, strength and adhesion to the sides of joints meet the requirements - should be performed. The final colour shade after drying and curing depends on curing conditions and the application method used; a freshly smoothed joint, for example, will be lighter in colour than a joint smoothed at a later stage. Slight colour differences when compared to the sample can therefore not be ruled out and do not constitute a reason for complaint. With follow-up deliveries always do a colour shade comparison after drying. In unsuitable curing conditions (low temperatures, high humidity) the possibility of calcium carbonate efflorescences cannot be safely ruled out, with strong colours in particular.  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.														

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**Safety Instructions:**

Rajasil FM HS NA contain 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 of 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.

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**Storage:**

Store in a dry place; shelf-life in original container: approx. 9 months. Low chromate conforming to TRGS 613.

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**Quality Control:**

External and internal controls at regular intervals.

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The information given herein is based on our present knowledge and experience. However, it implies no liability on our part. We reserve the right to make changes according to technological progress or further developments. This information serves to describe the properties of our products and services, and no warranty is intended or implied. The customer is not released from the obligation to conduct careful inspection of the functions and applications of incoming goods by qualified personnel. This is also valid with regard to existing third party intellectual property rights. Reference to trade names used by other companies is neither a recommendation nor does it imply that other similar products could not be used. With this publication, earlier Technical Data Sheets become invalid

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