

Technical Data Sheet

Rajasil FM PH HS NA

(aerated hydrophobic joint mortar)

Rajasil FM PH HS NA: Mineral, water-repellent dry factory mixed mortars G, M 5, W 2 in accordance with DIN EN 998 2 with high water vapour permeability and high pore volume. Rajasil FM PH HS NA is also sulphate resistant.

Areas of Application: Jointing of moisture and salt contaminated facing brickwork (natural stone, clay brick, clinker) and brick linings made from non or low absorbent bricks; interior (e.g. cellar rooms) and exterior application above grade.
Not for use on horizontal surfaces, e.g. floorings.
The responsibility for any usage outside these areas of application lies solely with the user.

Composition: Lime, cement, HS NA, quartz sands up to approx. 2mm max. grain size, additives for the improvement of workability and adhesion, as well as for specific properties such as water repellence, high water vapour permeability and salt absorbency, pigments as desired.
Rajasil FM PH HS NA in terms of composition and properties are largely identical to the time tested Rajasil renovation renders.

Technical Parameters:

Mortar group	M 5 with DIN EN 998-2
Gross density of set mortar	1,6 – 1,7 kg/dm ³
Flexural strength	ca. 3,5 N/mm ²
Compressive strength	ca. 10 - 13 N/mm ²
e-module	10000 – 11000 N/mm ²
w-value	< 0,5 kg/m ² ·h ^{0,5}
μ-value	15

Yield: 1kg dry mortar will yield approx. 0.8 litres wet mortar

Coverage: Coverage depends on depth and width of joints and should be ascertained using a test surface at the property.

Preparation of the Substrate: Clean joints and sides of bricks prior to jointing. Prepare existing joints in such a way that joint mortar can be applied to an average depth of at least 2cm (depending on joint width). After mechanical preparation, thoroughly clean dust and loose parts off joints.

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: 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.

Application: Thoroughly pre-wet cleaned joints. Apply prepared joint mortar using the usual tools.
Note: As a rule, a jointing test is recommended to ensure that colour, strength and adherence to sides of joints conform to the requirements.

After Treatment: Protect freshly jointed masonry adequately from premature loss of mixing water, direct sunlight, wind, rain and frost.

Notes: The final colour after drying and curing depends on the addition of water, application and curing conditions as well as weather conditions during curing. Slight divergences from the sample can therefore not be ruled out and do not constitute a reason for complaint. In unsuitable curing conditions (low temperatures, high humidity) and with strong colours in particular, the possibility of calcium carbonate efflorescences cannot be safely ruled out.
With follow up deliveries always perform colour comparison.
Variations in colour 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.

Safety Instructions:

Rajasil FM PH 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.
For further information see Safety Data Sheet.

Storage:

Store in a dry place; shelf-life in original container: approx. 9 months.

Quality Control:

External and internal controls at regular intervals.



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