

# Technical Data Sheet

## Rajasil DS

(Sealing Slurry)

**Rajasil DS:** cement-bound, synthetic resin-coated, factory dried mortar CS IV (MG III) W 2 in accordance with DIN EN 998-1 for the manufacture of surface sealants in compliance with WTA leaflet "Subsequent sealing of building components which are in contact with the ground" 4-6, edition 01/2014/D, and the "Guidelines for the planning and implementation of building components with mineral sealing slurries which are in contact with the ground", 1st edition, as on May 2002.

**Properties:** High adhesiveness; resistant to aggressive impacts; sulfate-resistant, frost-resistant after curing

**Areas of Application:**

- exterior sealing of walls; load case: soil moisture and percolating leachate
- interior sealing and retrofitted interior sealing against outside moisture (floor panels and walls); load case: soil moisture and percolating leachate
- intermediate sealing layer between the substrate (also with completely saturated capillary pores) and the sealing that is to be installed
- splash water protection at wall bases
- horizontal sealing inside and below rising walls
- sealing against exposure to water from the inside during the construction phase
- sealing of process water tanks against water pressing from the inside

The details of planning and execution as well as general feasibility of the application are loadingcase-, object-, and substrate-dependant.

The responsibility for any usage exceeding these areas of application lies solely with the user.

**Coverage:**

Soil moisture and percolating leachate  
Intermediate sealing layer  
Horizontal sealing of walls  
Splash water protection at wall bases  
Sealing against exposure to water from the inside during construction  
approx. 4 kg/m<sup>2</sup> (at a dry-layer thickness of 2mm)

Process water tanks  
approx. 7 kg/m<sup>2</sup> (at a dry-layer thickness of 3mm)

**Substrate:** The substrate has to be structurally sound, free of ridges or cracks and largely even.

Suitable substrates:

- close-textured concrete of at least strength category B 15 in accordance with DIN 1045
- masonry (clay brick, lime sand brick, concrete blocks), strength category 6 minimum, flushjoint construction
- renders, mortar category CS IV (P III) of a 10mm minimum thickness
- structurally sound, moisture resistant, flush-joint substrates in old buildings

**Substrate Preparation:** Remove all adhesion-inhibiting residues, such as dust, tar, pitch, formwork oil or old coatings. Roughen smooth surfaces with e. g. compressed-air jets using a solid abrasive.

Level cavities and rock pockets with Rajasil Universalspachtel (multi-purpose levelling compound). If necessary, break edges and create concave mouldings with Rajasil Sperrputz sealing render (refer to Technical Data Sheet).

**Application and Substrate Temperature:** + 5 to + 25 °C; lower temperatures during the curing phase can have a sustained negative effect on product properties.

**Product Preparation:** Prepare mixing water in clean container. Slowly add Rajasil Dichtungsschlämme starr and mix to a lump-free consistency using a power stirrer.

Consistency	water	Rajasil DS (rigid sealing slurry)
compatible for trowel application	4.7 to 5.0 l	25 kg
spreadable	5.0 to 5.2 l	25 kg
sprayable	5.2 to 5.3 l	25 kg

**Application:**

Apply Rajasil Dichtungsschlämme starr fully-covering in at least two working cycles. Maximum dry-layer thickness should not exceed 5mm.

Stress category	Minimum dry-layer thickness	Minimum wet-layer thickness
Soil-moisture and percolating leachate; Intermediate sealing layer; Horizontal sealing of walls; Splash-water protection at the wall-base; Exposure to water from the inside during construction	2.0 mm	2.5 mm
Water tanks of a depth < 5m	3.0 mm	3.5 mm

If, for negative waterproofing, an additional render layer using Rajasil Sanierputz SP2 or SP3 renovation render is necessary, apply Rajasil Spritzbewurf as bonding bridge wet-on-damp in a web-like pattern.

Please note:

**Please observe the guideline on the planning and execution of waterproofing of construction elements using mineral sealing slurries ("Richtlinie für die Planung und Ausführung der Abdichtung von Bauteilen mit mineralischen Dichtungsschlämmen"), first issue, May 2002.** For information on an English-language version, please contact the publisher (Deutsche Bauchemie e.V.) directly.

With water resilient after approx. 5 days, filling of the excavation after approx. 5 days.

**Notes:**

When planning the type of sealing, the water impact class, the splitting class and the room use class should be taken into account (see DIN 18533).

The layer is ready for further processing with bitumen after approx. 1 day in ideal drying conditions (+23 °C and 50% relative humidity) and is water-resistant after approx. 3 days (low temperatures and high humidity increase the indicated durations).

**Cleaning of Tools:**

Immediately after use, with water.

**Curing/After Treatment:**

Protect freshly applied sealing slurry from premature dehydration (sun, wind, high temperatures), rain and frost.

**Safety Instructions:**

Rajasil DS (Dichtungsschlämme starr) contains cement 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, flush thoroughly 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.

**Storage:**

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

**Quality Control:**

Constant monitoring of production through laboratory analyses; national technical approval ("allgemeine bauaufsichtliche Zulassung").



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