

Technical Data Sheet

Rajasil 2K DB

(Thick Coating)

Rajasil 2K DB:	is a dual component, polymer modified thick bitumen coating (solvent-free) for sealing structures and building components in accordance with DIN 18533 (formerly DIN 18195) with polystyrene particle filling, consisting of a liquid and a powdered component.												
Properties:	<p>When dry, the coating forms a seamless, flexible and fissure-bridging radon-proof sealing. High application safety – thanks to a chemical reaction, the coating will be rainproof after a very short time. The coating is resistant to ageing and has excellent adhesion properties on dry and slightly moist substrates.</p> <p>Certified according to DIN 18 195-2; general building inspection test certificate (“Allgemeines bauaufsichtliches Prüfzeugnis”) for the waterproofing of buildings (according to DIN 18 195, parts 4 and 6); general building inspection test certificate for the strip-shaped waterproofing of construction joints and butt joints on construction elements made from concrete with high water penetration resistance.</p>												
Areas of Application:	<p>Sealing walls and floors which are in contact with the ground</p> <p>Sealing in accordance with DIN 18533 for:</p> <ul style="list-style-type: none"> - W1-E soil moisture and non-pressing water - W2.1-E Moderate impact of pressing water ≤ 3 m submersion depth - W3-E non-pressing water on soil-covered surfaces - W4-E splash water and ground moisture on wall foundations as well as capillary water in and underneath walls - Sticking rigid foam insulations boards (perimeter insulation) to bituminous and mineral substrates - Sealing building components against water which is aggressive to concrete in accordance with DIN 4030 – 1 - as well as loading cases according to former DIN 18195 4-6 <p>The user is liable for any other use exceeding these areas of application.</p>												
Coverage:	<table border="1"> <tr> <td>Priming: Rajasil BITU (Bitu primer) diluted 1:5 with water</td> <td>Approx. 250 ml/m²</td> </tr> <tr> <td>- W1-E soil moisture and non-pressing water</td> <td>Approx. 4 l/m²</td> </tr> <tr> <td>- W2.1-E moderate impact of pressing water (insertion of Rajasil AAG (rough reinforcement lattice fabric) required)</td> <td>Approx. 5 l/m²</td> </tr> <tr> <td>- W3-E non-pressing water on soil-covered surfaces (insertion of Rajasil AAG (rough reinforcement lattice fabric) required)</td> <td>Approx. 5 l/m²</td> </tr> <tr> <td>- W4-E splash water and ground moisture on wall foundations as well as capillary water in and underneath walls</td> <td>Approx. 4 l/m²</td> </tr> <tr> <td>- Sticking rigid foam insulations boards to bituminous and mineral substrates</td> <td>Approx. 1.8 l/m²</td> </tr> </table> <p>Yield: 1 l produces approx. 1 mm thickness of wet coating per m²</p>	Priming: Rajasil BITU (Bitu primer) diluted 1:5 with water	Approx. 250 ml/m ²	- W1-E soil moisture and non-pressing water	Approx. 4 l/m ²	- W2.1-E moderate impact of pressing water (insertion of Rajasil AAG (rough reinforcement lattice fabric) required)	Approx. 5 l/m ²	- W3-E non-pressing water on soil-covered surfaces (insertion of Rajasil AAG (rough reinforcement lattice fabric) required)	Approx. 5 l/m ²	- W4-E splash water and ground moisture on wall foundations as well as capillary water in and underneath walls	Approx. 4 l/m ²	- Sticking rigid foam insulations boards to bituminous and mineral substrates	Approx. 1.8 l/m ²
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Substrate:	<ul style="list-style-type: none"> – Close-textured concrete, strength category C12/15 and above – Renders P II and P III according to former DIN V 18 550 – Masonry in accordance with DIN 1053, made with clay brick, lime sand brick, lightweight concrete, hollow concrete blocks, aerated concrete 												
Substrate Preparation:	<p>Remove adhesion-inhibiting residue like dust, tar, pitch, water-repellent materials, formwork oil or old, non-structurally-sound coatings.</p> <p>Level cavities > 5 mm, such as mortar pockets, open butt joints and horizontal joints or broken off material (using a bonding bridge made with Rajasil Spritzbewurf).</p> <p>With masonry unevennesses as laid out in DIN 1053, no-fines lightweight concrete, open butt joints up to 5 mm and profiled surfaces (e. g. render grooves on clay bricks):</p> <ul style="list-style-type: none"> – work over with a levelling render layer using Colfirmit Haftmörtel (adhesive mortar), or – execute a scrape-levelling (after first priming with Rajasil Bitu-Voranstrich). <p>Break (bevel) edges and create concave mouldings using Rajasil Sperrputz (waterproof render).</p> <p>Prime substrate with Rajasil Bitu-Voranstrich before applying the thick coating. Dilute the solvent-free bitumen-based primer with water 1 : 5 and brush-apply. After primer has dried, apply Rajasil 2 K-Dickbeschichtung.</p> <p>When used on concrete, pre-treat substrate with Betongrund (concrete primer), mixed to a ratio of 1:9 with tap water, first. Application of thick coating onto the damp primer must then follow within 20 minutes.</p>												
Application and Substrate Temperature:	+ 5 to + 25 °C; lower temperatures during the drying phase can have a sustained negative effect on product properties.												
Product Preparation:	<p>Prior to application, stir up emulsion briefly, then add powder component and mix thoroughly to a homogenous, lump-free consistency using a fast-running mixer. Quantities of both the fluid and the powder component are complementary. Processing time: 1-2 hours at 23 °C.</p> <p>Lower temperatures delay, higher temperatures accelerate setting time.</p>												

Application:

The product can be applied by hand or by machine.

Water impact class

W1-E soil moisture and non-pressing water

W4-E splash water and ground moisture on wall foundations as well as capillary water in and underneath walls

soil moisture, percolating leachate and non-pressing water; moderate strain:

Two-coat "fresh-in-fresh" apply 2 K-Dickbeschichtung on dried Bitu-Voranstrich in a wet-layer thickness of at least 4 mm. Check wet-layer thickness when still fresh. Check curing state by taking a sample using wedge-cut method.

Water impact class

W2.1-E Moderate impact of pressing water ≤ 3 m submersion depth

W3-E non-pressing water on soil-covered surfaces

Two-coat apply 2 K-Dickbeschichtung on dried Bitu-Voranstrich. Embed a reinforcement layer consisting of Rajasil Armierungsgittergewebe (reinforcement grill mesh) into upper region of first layer. Make sure that the first layer has dried to such an extent that it cannot be damaged when applying the second layer. Check and document wet-layer thicknesses (5 mm overall minimum) when still fresh. Check curing state by taking a sample using wedge-cut method.

Suitable for the protection of the sealing in areas with contact to the ground are drainage elements that do not exert any punctual or linear pressure on the sealing.

Layer thicknesses:

DIN 18533	Wet layer thickness	Dry layer thickness
W1-E soil moisture and non-pressing water W4-E splash water and ground moisture on wall foundations as well as capillary water in and underneath walls	4 mm	≥ 3 mm
W2.1-E Moderate impact of pressing water ≤ 3 m submersion depth W3-E non-pressing water on soil-covered surfaces	5 mm	≥ 4 mm

Notes:

The layer is rainproof after approx. 4 hours in ideal drying conditions (+23 °C and 50% relative humidity) and is water-resistant after approx. 2 days (low temperatures and high humidity increase the indicated durations).

Please observe WTA guideline 4-6-05-D "Sealing of structural elements in contact with soil at a later stage" (WTA-Merkblatt 4-6-05-D "Nachträgliches Abdichten erdberührter Bauteile") as well as the guideline on the planning and execution of waterproofing of construction elements in contact with the ground using synthetics-modified bituminous thick coatings ("Richtlinie für die Planung und Ausführung von Abdichtungen mit kunststoffmodifizierten Bitumendickbeschichtungen (KMB) – erdberührte Bauteile"), second issue, valid as at November 2001, appendix 1, paragraph 1. For information on English-language versions of these guidelines, please contact the respective publisher (Wissenschaftlich-Technische Arbeitsgemeinschaft für Bauwerkserhaltung und Denkmalpflege; Deutsche Bauchemie e.V.) directly.

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

After Treatment:

Provide for sufficient protection of the freshly applied sealing from sunlight, rain and frost.

Cleaning of Tools:

Immediately after work, with water; when cured, material can only be removed by mechanical scraping.

Safety Instructions:

Rajasil 2 K-Dickbeschichtung contains cement, which reacts alkaline when moist. Protect eyes and skin. Avoid contact with skin. If product gets in eyes, thoroughly flush with water immediately and seek medical attention. Wear suitable protective gloves. If product is ingested, seek medical attention immediately. Keep product out of the reach of children. For further information, refer to Safety Data Sheet.

Storage:

Store in a cool, frost-free place; shelf-life in closed original container: 12 months. Powder component low in chromate in accordance with TRGS 613 for at least 12 months after date of production.

Quality Control:

Constant production process quality control through laboratory analyses.



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