

Technical Data Sheet

Rajasil 2 K-Dickbeschichtung

(Thick Coating)

Rajasil 2 K-Dickbeschichtung:	is a two-component, synthetics-modified bituminous waterproofing (solvent free) in accordance with DIN 18 195 with polystyrene particle filling and powdery component for the elastic waterproofing of built structures against soil moisture, percolating leachate and standing leachate as well as non-pressing water, consisting of one liquid and one powdery component.										
Properties:	<p>When dry, the coating forms a seamless, flexible and fissure-bridging sealing.</p> <p>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:	<ul style="list-style-type: none"> – Sealing of walls close to or in the ground as well as flooring boards against soil moisture and percolating leachate (DIN 18 195-4) against standing leachate (DIN 18 195-6) <li style="padding-left: 20px;">Diverging from DIN 18 195, Rajasil Dickbeschichtung can also be used for the sealing against pressing water. Please observe the guideline on the planning and execution of waterproofing of construction elements in contact with the ground using syntheticsmodified 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 an English-language version, please contact the publisher (Deutsche Bauchemie e.V.) directly. – Sealing of horizontal or inclined exterior surfaces (balconies and similar elements in residential construction) against non-pressing water, moderate strain (DIN 18 195-5) – Sealing of wall and floor surfaces in wet areas against non-pressing water, moderate strain (DIN 18 185-5) – Bonding of rigid-foam boards on bituminous and mineral substrates – Sealing of construction elements against waters harmful to concrete in accordance with DIN 4030 <p>Suitable for the exterior, strip-shaped sealing of construction joints (maximum width 0.25 mm) on concrete elements against soil moisture, non-pressing water, temporarily rising leachate and pressing water down to a submersion depth of 3 m.</p> <p>The responsibility for any usage exceeding these areas of application lies solely with the user.</p>										
Coverage:	<table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Priming: Rajasil Bitu-Voranstrich (mixed 1:5 with water)</td> <td style="text-align: right; vertical-align: bottom;">approx. 250 ml/m²</td> </tr> <tr> <td style="padding-left: 20px;">Sealing of walls in contact with the ground and flooring boards against soil moisture and non-accumulating leachate standing leachate (and pressing water)</td> <td style="text-align: right; vertical-align: bottom;">approx. 4 l/m² approx. 5 l/m²</td> </tr> <tr> <td style="padding-left: 20px;">Sealing of horizontal and inclined exterior surfaces and of wall and floor surfaces in wet areas against non-pressing water, moderate strain approx. 4 l/m²</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Bonding of rigid-foam boards on bituminous and mineral substrates approx. 1.8 l/m²</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">1 l will yield approx. 1 mm wet-layer thickness per m²</td> <td></td> </tr> </table>	Priming: Rajasil Bitu-Voranstrich (mixed 1:5 with water)	approx. 250 ml/m ²	Sealing of walls in contact with the ground and flooring boards against soil moisture and non-accumulating leachate standing leachate (and pressing water)	approx. 4 l/m ² approx. 5 l/m ²	Sealing of horizontal and inclined exterior surfaces and of wall and floor surfaces in wet areas against non-pressing water, moderate strain approx. 4 l/m ²		Bonding of rigid-foam boards on bituminous and mineral substrates approx. 1.8 l/m ²		1 l will yield approx. 1 mm wet-layer thickness per m ²	
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Substrate:	<ul style="list-style-type: none"> – Close-textured concrete, strength category B 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 Colfirmat 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:

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. Lower temperatures delay, higher temperatures accelerate setting time.

Application:

The product can be applied by hand or by machine.

Loading case: 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.

Loading case: temporarily standing leachate:
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:

	wet-layer thickness	dry-layer thickness
soil moisture, percolating leachate and nonpressing water; moderate strain	4 mm	> 3 mm
temporarily standing leachate (and pressing water)	5 mm	> 4 mm

Notes:

The sealing will be rainproof after approx. one day, and can withstand water loads after approx. two days (at ambient conditions of approx. 23 °C, humidity < 50 %).

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.

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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