

## Rasco 2K FPD Vario

Universally applicable, two-component, flexible, polymer-modified thick coating (FPD).

For waterproofing of structures below ground in accordance with DIN EN 15814 und DIN 18533 – also against pressing water.

As horizontal water barrier in- and under walls and as adhesion bridge on critical surfaces.

Protects underground structures according to DIN 18533 permanently against W1-E, W2.1-E, W3-E and W4-E.

Fully usable according to the requirements of DIN EN 15814.

Useable in and under walls according to the FPD test principles in load case 2 (LF2).

Useable as protection against radon radiation on and under structures below ground.

It can be applied to vertical and horizontal surfaces, foundation slabs, foundations and cellar walls. Can be used on all known and suitable mineral substrates.



### PRODUCT FEATURES

- Solvent-free and environmentally friendly
- Crack-bridging and flexible
- Easy processing
- Good stability
- Seamless hard drying
- Applicable by trowel
- Paintable
- Sprayable
- Revisable with suitable paints
- Revisable with suitable mortars
- Resistance to all aggressive substances that occur naturally in soils
- Rain resistant shortly
- Rapid hardening
- Impervious to radon
- Resistant to frost and de-icing salts
- Frost-free at least 9 months shelf-life

### TECHNICAL DATA

Density A+B mixed	approx. 1,2 kg/l
Material shrinkage	7,0 %
Complete hardening / full loading capacity*	1-2 days
Rain resistance after*	2-3 hours
Setting time*	min. 1 hour
Working and drying temperature**	+5°C to +30°C

\* These times may vary greatly, depending on humidity, temperature, coating thickness and substrate. Times are based on the standard climate of + 23 °C and 50 % relative humidity.

\*\* Temperature: component, installation and ambient temperature.

### DELIVERY UNITS

24,88 kg combipack | 18 combipack / pallet | pallet weight approximately 480 kg

24,88 kg combipack including 1 x A component 16 kg | 1 x B component 8,88 kg

## DRY LAYER THICKNESS

## WET LAYER THICKNESS\*

## CONSUMPTION\*

2,0 mm	2,1 mm	2,5 kg/m <sup>2</sup>
3,0 mm	3,2 mm	3,8 kg/m <sup>2</sup>
4,0 mm	4,3 mm	5,2 kg/m <sup>2</sup>
Scratch coating		1-2 kg/m <sup>2</sup>
Gluing insulation and drainage panels		1-2 kg/m <sup>2</sup>

\* The consumption rates shown are minimum values. A separate professional levelling of the substrate, for example by a scratch coating is expected.

## CE-MARKING

 1119	 Bitumentchnik GmbH Otto-von-Guericke-Ring 11 - 65205 Wiesbaden www.bitumentchnik.de
22 CPR-DE1/9050639.1 EN 15814:2011-A2:2014 Rasco 2K FPD Vario <i>Kunststoffmodifizierte Bitumendickbeschichtung für die Bauwerksabdichtung</i>	
<b>Wasserdichtheit:</b> <b>Rissüberbrückungsfähigkeit:</b> <b>Beständigkeit gegen Wasser:</b>  <b>Biegsamkeit bei niedrigen Temperaturen:</b> <b>Maßhaltigkeit bei hohen Temperaturen:</b>  <b>Brandverhalten:</b> <b>Druckfestigkeit:</b> <b>Gefährliche Stoffe:</b> <b>Dauerhaftigkeit der Wasserdichtheit und des Brandverhaltens:</b>	<b>Klasse W2A</b> <b>Klasse CB2</b> <b>Keine Verfärbung des Wassers, keine Ablösung von der Einlage</b> <b>Keine Risse</b> <b>Kein Abrutschen und Ablaufen</b> <b>Klasse E</b> <b>Klasse C2A</b> <b>NPD</b> <b>erfüllt</b>

## GENERAL NOTES

In case of sealing or maintenance work the relevant standards and guidelines must be followed.

## SUBSTRATE PREPARATION

- Preparation of the substrate has always to be carried out in accordance with the corresponding DIN standard.
- The substrate must be sufficiently dry, level, stable, frost-protected, clean and without traces of oil, grease, tar, honeycombing, cracks, dust, dirt, residue mortar or other potential contaminants.
- Concrete overhangs and horizontal wall contact surfaces have to be prepared by mechanical removal.
- Edges should be broken and inside joints rounded out with suitable material.
- The risk of blister/bubble formation as a result of pores or hollow areas in the concrete can be reduced by scratch coating using **Rasco 2K FPD Vario**.
- Highly absorbent substrates must be prepared by using **Rasco FPD Vario Primer**.
- Open butt joint, up to 5 mm, should be closed by means of scratch coating using **Rasco 2K FPD Vario**.
- Open butt joints or pits > 5 mm must be filled using a suitable mortar.
- Old bituminous surfaces should always be checked for load-bearing capacity and suitability and then provided with a scratch coat/adhesive bridge made of **Rasco 2K FPD Vario**. Only after the scratch coat/adhesive bridge has completely dried, the waterproofing can be applied according to DIN.

## APPLICATION

- Rasco 2K FPD Vario is applied evenly in at least two coats on the prepared substrate.
- For mixing, add component B (liquid) to the mixing container and mix with component A (powder) with a suitable mixing tool for at least 3 minutes to form a homogeneous, lump-free mass.
- For spray application, we recommend adding approx. 0.5 l water per 24.8 kg container immediately after mixing. Mix until a homogeneous, lump-free mass is obtained.
- Application in the required layer thickness takes place using a smoothing trowel, normal trowel, brush or suitable pump/spray equipment.
- The second coat can be applied as soon as the first coat is dry enough that it cannot be damaged.
- If Rasco 2K FPD Vario is to be plastered over, first apply a combed contact layer with a suitable adhesive (e.g. Sopro tile adhesive No.1) and allow to dry. Then apply suitable plasters of mortar groups PII or PIII (depending on the application) according to the manufacturer's instructions.
- Tools and equipment should be cleaned using water or suitable cleaners immediately after use.

## SPECIAL NOTES

- Rasco 2K FPD Vario contains water-based bitumen emulsion in the form of an additive. This ensures the special material properties and the universal application possibilities.
- Rasco 2K FPD Vario meets highest standards of PMBC-product quality and can be applied for waterproofing in transition to concrete with high resistance to water penetration (waterproof concrete) and in accordance to DIN 18533.
- We recommend increasing the wet film thickness by approx. 5-10% when using the above-mentioned dilution of Rasco 2K FPD Vario for spray application and embedding a reinforcing insert to prevent cracking.
- The required minimum dry coat thickness must be maintained across the entire working area.
- The required wet coat thickness must not be exceeded by more than 100 % in any one place.
- During work breaks the coating has to be 'scraped down to nothing' and must not end on/in a corner of the building.
- Has Rasco 2K FPD Vario to be used in accordance with DIN 18533 waterload class W2.1-E, Rasco Reinforcement Mesh is to be embedded.
- The waterproof coating is to be protected with suitable materials (e.g. drain mat or thermal insulation).
- Verification of the layer thickness is carried out by measuring the wet layer thickness in accordance with DIN 18195 supplement 2. It must be carried out according to DIN 18533 part 3 in at least 20 places per project and at least at 20 places per 100 m².
- To test the drying and adhesion of the PMBC applied, the PMBC has to be passed through the 15 cm connection area. In these areas, the drying and adhesion must be tested in a destructive manner. The result of this check must be documented.
- The result of the layer thickness and completed drying tests must be documented in accordance with DIN 18533 part 3 in the form of a protocol report.
- GISCODE D1 (component A / component B)
- Please note the Safety Data Sheet (accessible at <http://www.rasco-bitumen.com/>)
- Please note the Declaration of Performance (accessible at <http://www.rasco-bitumen.com/>)

**Note:** The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the Rasco product installation. For the most up-to-date TDS and warranty information, please visit our website at [www.rasco-bitumen.com](http://www.rasco-bitumen.com). Any alterations to the wording or requirements contained in or derived from this TDS shall void all related Rasco warranties.