

Rasco 1K PMBC IT

Single component, polymer-modified bitumen thick coating (PMBC) for waterproofing of structures below ground in accordance with EN 15814

Protects underground structures permanently against ground damp (capillary water, retained water).

It can be applied to vertical and horizontal surfaces, foundation slabs, foundations, balconies, terraces, underground garages, cellar walls and patios, prior application to older bituminous treatments and thick coatings as well as 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
- ready to use
- resistant to frost and de-icing salts
- frost-free at least 12 months shelf-life

TECHNICAL DATA

Density	1.20 kg/l
Material shrinkage	31 %
Complete hardening / full loading capacity*	4 days
Rain resistance after*	6 hours
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

30 kg bucket | 18 buckets / pallet | pallet weight approx. 580 kg



10 kg bucket | 44 buckets / pallet | pallet weight approx. 480 kg

CONSUMPTION

Dry coat 3.0 mm	5.22 kg/m ²
Dry coat 4.0 mm	6.96 kg/m ²
Scratch coating	1-2 kg/m ²

The consumption rates shown are minimum values. These may increase according to the manner of application.

CE-MARKING

 0432	 Rasco Bitumentchnik GmbH Otto-von-Guericke-Ring 11 - 65205 Wiesbaden www.bitumenttechnik.de
13 CPR-DE1/90506721 EN 15814:2011+A2:2014 Rasco 1K PMBC IT <i>Polymer modified bitumen thick coating for waterproofing</i>	
Watertightness	Class W1
Crack bridging ability	Class CB1
Water resistance	no coloration of the water, no debonding from inlay
Flexibility at low temperature	no cracks
Dimensional stability at high temperature	no sliding or draining down
Reaction to fire	Class E
Resistance to compression	Class C1
Dangerous substances	NPD
Durability of water tightness and reaction to fire	passed

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 professional.
- 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.
- 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 1K PMBC IT**.
- Mineral substrates have to be prepared using **Rasco Bitumen Primer** (approx. 0.1-0.2 l/m²).
- Open butt joint up to 5 mm should be closed by means of scratch coating using **Rasco 1K PMBC IT**.
- Open butt joints or pits > 5 mm must be filled using a suitable mortar.

APPLICATION

- **Rasco 1K PMBC IT** is ready to use and is applied evenly in at least two coats after the **Rasco Bitumen Primer** has dried on the prepared substrate.
- Application to the required layer thickness is carried out using either suitable airless spraying equipment, a smoothing trowel or a normal trowel.
- The second coat may be applied as soon as the first coat is dry enough so that it cannot be damaged.
- Tools and equipment should be cleaned using water immediately after use.

SPECIAL NOTES

- The minimum dry coat thickness should be maintained across the entire working area.
- The wet coat thickness should not be exceeded by more than 100 % in any one place.
- During work breaks the polymer-modified bitumen coating has to be 'scraped down to nothing' and must not end on/in a corner of the building.
- In high water load case **Rasco Reinforcement Mesh** is to be embedded.
- The waterproof coating is to be protected with suitable sheets, insulation materials or protective layers.
- Verification of the layer thickness should be carried out by measuring the wet layer thickness in at least 20 places per project and at least at 20 places per 100 m².
- The completed test is carried out by cutting reference samples. The test substrate must be identical to the substrate in the working area and the coating applied in the same way as required on site. The reference samples are to be stored in the deepest part of the building excavations.
- The result of the layer thickness and completed drying tests should be documented in the form of a protocol report.
- 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. Any alterations to the wording or requirements contained in or derived from this TDS shall void all related Rasco warranties.

Issue 04: This document has been updated with respect to resistance to frost and de-icing salts. When this version is updated it will lose its validity.