

# BOTAMENT® RD 2 The Green 1

## Fast, multi-functional reactive sealant

BOTAMENT® RD 2 The Green 1 is a rapidly setting, bitumen-free reactive sealant for the waterproofing of structural elements that are in contact with the ground in new builds and for the repair of existing waterproofing.

### Properties

- ❖ Fast waterproofing of building structures
- ❖ No priming necessary
- ❖ Highly flexible and crack-bridging
- ❖ Impervious even under negative water pressure (during construction phase)
- ❖ High UV, frost and aging resistance
- ❖ Can be painted and plastered over
- ❖ With visible curing control
- ❖ Solvent-free
- ❖ Suitable for coating cesspits and silage sites

### Application areas

- ❖ waterproofing of basement walls, floor slabs foundations, balconies and terraces
- ❖ repair of existing waterproofing to buildings and roofs
- ❖ waterproofing of butt and construction joints in water-impermeable concrete structures
- ❖ intermediate sealant under screeds
- ❖ horizontal waterproofing in and underneath walls
- ❖ waterproofing of water features in landscape gardening
- ❖ sealing of water containers
- ❖ fixing of protection and insulation boards

### Suitable substrates

- ❖ mineral substrates
- ❖ old, stable bituminous waterproofings
- ❖ many standard plastics used in construction (pipes/ penetrations)
- ❖ metal substrates (steel and gunmetal)

### Substrate preparation

The substrate must be in the following condition:

- ❖ dry to slightly damp, clean and frost-free
- ❖ stable
- ❖ free from grease, paint, cement laitance, separating agents, sinter layers, honeycombs, protruding mortar residues and loose particles
- ❖ cut off protruding horizontal waterproofing so it sits flush

**Depending on the appearance of the substrate the following substrates must receive a scratch coat prior to application of the first waterproofing layer:**

- ❖ concrete, render and brickwork
- ❖ profilings and large-scaled defects (for this purpose mix BOTAMENT® RD 2 The Green 1 with 30 % of dried quartz sand of grain size 0.5 – 1.2 mm)
- ❖ old waterproofing layers

Mineral substrates must be pre-wetted prior to application of the first waterproofing layer.

### Please also note:

- ❖ mounting parts made from PVC, steel and gunmetal must be cleaned thoroughly, removing any grease and must be roughened up (keyed)
- ❖ lightly sanding substrates must be primed with BOTAMENT® D 12 pre-treat deep silification
- ❖ close off defects and open butt joints
  - < 5 mm width → with BOTAMENT® RD 2 The Green 1
  - ≥ 5 mm width → with BOTAMENT® M 36 Speed

### Technical data

material basis	polymer dispersion, special cement, additives
colour	green
packaging	<u>8 kg unit</u> 4 kg liquid component (A) 4 kg powder component (B)  <u>20 kg unit</u> 10 kg liquid component (A) 10 kg powder component (B)
pallet delivery	33 x 8 kg 12 x 20 kg
storage	frost-free, cool and dry at least 12 months in its original sealed container
density	~ 1,18 kg/ dm <sup>3</sup>
s <sub>d</sub> - value	
dry layer thickness:	
2,0 mm	~ 40 m
2,5 mm	~ 50 m
pressure load-bearing capability	3 N/ mm <sup>2</sup>
mixing ratio	1 : 1
working time	~ 45 minutes
max. layer thickness (wet)	20 mm
rain-resistant	after ~ 3 hours
bonding of drainage and insulation boards	after ~ 4 hours
ready to receive mechanical loads	after approx. 24 hours
consistency	can be applied by trowel, painted on or sprayed on
application and substrate temperature	+ 5 °C to + 30 °C
<b>cleaning agent</b>	
when fresh	water
when fully cured	by mechanical means

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All times stated refer to the standard atmosphere of + 23 °C and 50 % relative humidity.

Higher temperatures and lower humidity accelerate, while lower temperatures and higher humidity delay curing.

### Application

- ❖ add component B to component A and mix both together with a slowly rotating mixer for at least 2 minutes
- ❖ don't mix material again that has started to set

BOTAMENT<sup>®</sup> RD 2 The Green 1 is applied using a paste brush, smoothing trowel or spray device in at least two layers. In the load case ground moisture/ non-accumulating seepage water the second waterproofing layer can be applied fresh on fresh onto the first layer, in load case accumulating seepage water/ pressing water the first layer must have dried out to a degree that the application of the second layer does not cause any damage to it.

It is not necessary to work a glass fibre mesh into a layer of BOTAMENT<sup>®</sup> RD 2 The Green 1.

To cover joints and to produce connections, internal corners, transitions and penetrations, we recommend working BOTAMENT<sup>®</sup> SB 78 sealing tape into the first layer of the waterproofing using suitable moulds and then to cover these with the second layer which should be smoothed over with a paint brush.

Curing is completed when the original light green has all turned to a dark green colour.

Curing is complete when the waterproofing is no longer the colour it was when fresh (i.e. light green), but has turned dark green across the entire area.

In addition to this visible control, we generally recommend carrying out a reference sample which is to be kept on the ground of the construction pit.

The mixing ratio specified by the factory must be strictly adhered to. If BOTAMENT<sup>®</sup> RD 2 The Green 1 is to be applied using the spray method, we recommend contacting the experts from our technical department first.

Informations about the waterproofing of cesspits and silage sites can be received from our leaflet "advices for the application of RD 2 The Green 1" at [www.botament.com](http://www.botament.com).

### Waterproofing of butt and construction joints in concrete structures with a high resistance against water penetration (water-impermeable concrete)

Here BOTAMENT<sup>®</sup> RD 2 The Green 1 must be applied across the entire joint width of  $\geq 30$  cm ( $\geq 15$  on either side of the joint) in at least two layers (integrate glass fibre fabric BOTAMENT<sup>®</sup> GS 98 into the first layer).

### Important tips

When waterproofing building structures in contact with the ground all valid technical standards and guidelines must be observed in their current versions.

BOTAMENT<sup>®</sup> RD 2 The Green 1 should not be applied onto areas getting plenty of sunshine.

When work is interrupted during application, extend BOTAMENT<sup>®</sup> RD 2 The Green 1 down to a feather finish. Work is continued with an overlap. Interruptions in the area of corners and edges are not permissible.

The filling of the building pit may not occur until BOTAMENT<sup>®</sup> RD 2 The Green 1 has completely cured.

For the protection of the waterproofing we recommend BOTAMENT<sup>®</sup> DS 993 drainage and protection board.

BOTAMENT<sup>®</sup> RD 2 The Green 1 is not recommended for use on non-ferrous metals.

For producing a composite sealant under tilings we recommend BOTAMENT<sup>®</sup> MD 1, BOTAMENT<sup>®</sup> MD 28 or the BOTAMENT<sup>®</sup> AE sealing and decoupling membrane.

For durable sealings against negative water pressure our sealing slurries BOTAMENT<sup>®</sup> M 34 und BOTAMENT<sup>®</sup> MS 30 are suitable.

You can view or download the safety datasheet at [www.botament.com](http://www.botament.com).

**Important Notice:** The information provided here is based on our experience and is given to the best of our knowledge, but is non-binding. All instructions must be adapted to suit the individual building projects, the application purpose and the specific local conditions. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In any case, the generally accepted technical rules must be adhered to. Edition GB-1406. Further technical details can be found in our technical data sheets on our website: [www.botament.com](http://www.botament.com).  
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### Consumption

<i>application area</i>	consumption (kg/m <sup>2</sup> )	± wet layer thickness (mm)	± dry layer thickness (mm)
scratch coat	0.5- 1.2*	-	-
waterproofing in case of ground moisture/ non-accumulating seepage water	2.7	2.3	2.0
waterproofing in case of accumulating seepage water/ pressing water	3.3	2.8	2.5
setting adhesive for drainage boards	1.2	-	-
waterproofing of cesspits	3.3	2.8	2.5
waterproofing of joints in water- impermeable concrete structures	4.0	3.3	3.0

\* depending on the roughness and the planarity of the substrate



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13

**0754-CPD-13-0796**

**EN 1504-2:2004**

Surface protection products – Coating  
EN 1504-2: ZA.1d und ZA.1e

Permeability to CO <sub>2</sub>	s <sub>D</sub> > 50 m
Water vapour permeability	class III
Capillary absorption and permeability to water	w < 0.1 kg/m <sup>2</sup> x h <sup>0.5</sup>
Adhesion strength by pull off test	≥ 0.8 (0.5) <sup>1)</sup> N/mm <sup>2</sup>
Reaction to fire	class E
<b>Release of dangerous substances</b>	EN 1504, point no. 5.3