

## Data Sheet

# RadonTec AlphaSeal

**AlphaSeal** is a two-component, mineral, flexible, polymer-modified thick coating (FPD) with fast rain resistance, plasterable and crack-bridging. In addition, the sealing slurry is radon-proof.

## Technical Data

<b>Color</b>	Dark grey
<b>Solid</b>	Ca. 90 Gew.-%
<b>Density (+20°C)</b>	Ca. 1,2 g/cm <sup>3</sup>
<b>Processing temperature</b>	+ 2°C bis + 30°C
<b>Processing time</b>	Ca. 45 min
<b>Rainproof after</b>	Ca. 2 h
<b>Insulation board bonding after</b>	Ca. 4 h
<b>Can be filled after</b>	Ca. 16 h
<b>Radon tight</b>	Ab 3 mm TSD
<b>Resistant to pressurized water after</b>	24 h (up to 10 m water column)
<b>Crack bridging</b>	
<b>PG-FDP (24 h, + 4°C)</b>	> 2 mm bei 4 mm TSD
<b>PG-MDS (24 h)</b>	> 0,4 mm bei 3,2 mm TSD
<b>DIN EN 14891 (standard climate)</b>	> 3,5 mm bei 2,0 mm TSD
<b>DIN EN 14891 (-5°C)</b>	> 1,7 mm bei 2,2 mm TSD

<b>Initial adhesive tensile strength</b>	≥ 0,5 N/mm <sup>2</sup>		
<b>Tensile bond strength after contact with water</b>	≥ 0,5 N/mm <sup>2</sup>		
<b>Tensile bond strength after heat aging</b>	≥ 0,5 N/mm <sup>2</sup>		
<b>Tensile bond strength after freeze/thaw cycles</b>	≥ 0,5 N/mm <sup>2</sup>		
<b>Tensile bond strength after contact with lime water</b>	≥ 0,5 N/mm <sup>2</sup>		
<b>Water impermeability</b>	Water impermeable and ≤ 20 g mass increase		
<b>Crack bridging under standard conditions</b>	≥ 0,75 mm		
<b>Crack bridging at low temperatures -5°C</b>	≥ 0,75 mm		
<b>Consumption</b>	Ca. 2,4 – 4,8 kg / m <sup>2</sup>		
<b>... when used as FPD</b>	TSD [mm]	NSD [mm]	Consumption [kg/m <sup>2</sup> ]
<b>W1-E: soil moisture and non-pressing water according to DIN 18533:2017-07</b>	3,0	3,2	Ca. 3,6
<b>W2.1-E: moderate exposure to pressing water (immersion depth ≤ 3 m) according to DIN 18533:2017-07</b>	4,0	4,2	Ca. 4,8
<b>W2-B: tank waterproofing according to DIN 18535:2017-07 up to ≤ 10 m filling level</b>	4,0	4,2	Ca. 4,8
<b>W3-E: non-pressing water on earth-filled ceilings according to DIN 18533:2017-07</b>	3,0	3,2	Ca. 3,6
<b>W4-E: splash water and soil moisture at the wall base as well as capillary water in and under walls according to DIN 18533:2017-07 TSD: minimum dry film thickness.</b>	2,0	2,1	Ca. 2,4

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	TSD [mm]	NSD [mm]	Consumption [kg / m <sup>2</sup> ]
<b>... when used as PMBC</b>	3,0	3,2	Ca. 3,6
<b>W1-E: soil moisture and non-pressing water according to DIN 18533:2017-07</b>	4,0	4,2	Ca. 4,8
<b>W2.1-E: moderate action of pressing water (immersion depth ≤ 3 m) according to DIN 18533:2017-07</b>	4,0	4,2	Ca. 4,8
<b>W3-E: non-pressing water on earth-filled ceilings according to DIN 18533:2017-07</b>	3,0	3,2	Ca. 3,6
<b>W4-E: splashing water and soil moisture at the wall base as well as capillary water in and under walls according to DIN 18533:2017-07</b> <b>TSD: minimum dry film thickness.</b>			

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	TSD [mm]	NSD [mm]	Consumption [kg / m <sup>2</sup> ]
<b>... when used as MDS</b>			
<b>W1-E: soil moisture and non-pressing water according to DIN 18533:2017-07</b>	2,0	2,1	Ca. 2,4
<b>W2.1-E: moderate action of pressing water (immersion depth ≤ 3 m) according to DIN 18533:2017-07</b>	2,5	2,7	Ca. 3,1
<b>W3-E: non-pressing water on earth-filled ceilings according to DIN 18533:2017-07</b>	2,5	2,7	Ca. 3,1
<b>W4-E: splashing water and soil moisture at the wall base as well as capillary water in and under walls according to DIN 18533:2017-07</b> <b>TSD: minimum dry film thickness.</b>	2,0	2,1	Ca. 2,4

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#### Other consumptions

<b>As board adhesive</b>	Mind. 3,0 kg / m <sup>2</sup>
<b>As scratch coat*</b>	Ca. 0,8 kg / m <sup>2</sup>
<b>As carbon throat*</b>	Ca. 0,3 kg / m

**\*: including fire-dried quartz sand**