

## Technical Data Sheet

# BelowGrade

## WATERPROOFING AND PROTECTION

**BelowGrade** is used as a waterproof membrane for roof protection, concrete basements, decks, foundations, and various wood structures.

**BelowGrade** acts as a protective coating against the penetration of water, salt, or other chemicals. In this way, **BelowGrade** can serve as rust protection for various iron-containing materials. **BelowGrade** can also be applied to concrete, sheets/panels, and parking decks.

### APPLICATION

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**BelowGrade** is applied using the 2-component spray system specially developed for Liquid Rubber products. Both components consist of environmentally friendly water-based products. The product cures immediately, forming a seamless and permanently flexible membrane.

**BelowGrade** is an environmentally friendly water-based product, free of volatile organic compounds (VOCs), and is processed cold using a specifically designed spray system. **BelowGrade** is a safe alternative to conventional hot-applied products or solvent-based products. For best results, **BelowGrade** should be applied to a dry surface free of dust, dirt, grease, and oil. The product cures immediately but is not recommended for use during heavy rainfall.

**BelowGrade** is applied with a coverage of 2.7 kg/m<sup>2</sup>, depending on the required membrane thickness. Typically, **BelowGrade** is touch-dry one minute after application at 20°C, and the product fully adheres to the substrate within 48 hours. This adhesion and drying time depend on temperature and humidity. An applicator can easily spray 600 m<sup>2</sup> or more in a day. Additional protection or insulation can be applied to the membrane on average 20 minutes after application.

### LIMITATIONS

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**BelowGrade** is mildly alkaline. Adhere to standard safety precautions during application, wear gloves, eye protection, and other appropriate protective equipment. Consult the safety data sheet for more information. **BelowGrade** should not be applied when the ambient temperature is below 5°C. The uncured membrane can be damaged if it freezes and should not be applied to wet or frozen surfaces or just before it is about to rain.



### CAUTION

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For professional use only. Keep out of reach of children and animals. Avoid storage below 5°C. Refer to the safety data sheet for the use of **BelowGrade**.

### TECHNICAL SERVICE

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## PHYSICAL PROPERTIES (liquid)

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### PROPERTY

Color  
Specific gravity (liquid), g/cm<sup>3</sup> Odour  
Volatile Organic Compound VOC Solids  
%  
Viscosity Brookfield CPS pH

### TYPICAL RESULT

Brown to black  
Approx. 1.0 None  
Contains no solvents 53 –  
58%  
1 - 100  
10 – 12

## USAGE

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### CURED MEMBRANE

mm	kg/m <sup>2</sup>	seal
1.00	1.35	airtight
2.00	2.7	watertight

## PERFORMANCE (Cured membrane)

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### PROPERTY

Color  
Specific gravity g/cm<sup>3</sup>  
Water absorption NEN-EN-ISO 15148:2002  
Water vapor transmission NEN-EN-ISO 7783:2011 Crack  
bridging ASTM C1305  
Adhesion to limestone  
Adhesion to PVC Adhesion  
to zinc Adhesion to  
aluminum Adhesion to  
concrete Adhesion to wood  
Tensile strength ASTM D638 Elongation  
% ASTM D638 Recovery %  
Salt resistance ASTM B117-09

### TYPICAL RESULT

Black  
Approx. 1.0  
0.00011kg/m<sup>2</sup>.sec<sup>0.5</sup>  
0.59 g/m<sup>2</sup>\*24h  
Passed  
2,1 n/mm<sup>2</sup>  
1,4 n/mm<sup>2</sup>  
1,9 n/mm<sup>2</sup>  
2,7 n/mm<sup>2</sup>  
2,07 n/mm<sup>2</sup>  
2,9 n/mm<sup>2</sup>  
Passed (>90% original value) 850%  
>90%  
Passed >1200h  
0.0004 L/(s.m<sup>2</sup>) at 75 Pa

Air permeability ASTM E2178



## DECLARATION OF PERFORMANCE

Construction Products Regulation (CPR) EU 305/2011