

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

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/m², 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 m² or more in a day. Additional protection or insulation can be applied to the membrane on average 20 minutes after application.

LIMITATIONS

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

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)

PROPERTY	TYPICAL RESULT
Color	Brown to black
Specific gravity (liquid), g/cm ³ Odour	Approx. 1.0 None
Volatile Organic Compound VOC Solids %	Contains no solvents 53 – 58%
Viscosity Brookfield CPS pH	1 - 100 10 – 12

USAGE

CURED MEMBRANE

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

PERFORMANCE (Cured membrane)

PROPERTY	TYPICAL RESULT
Color	Black
Specific gravity g/cm ³	Approx. 1.0
Water absorption NEN-EN-ISO 15148:2002	0.00011kg/m ² .sec ^{0.5}
Water vapor transmission NEN-EN-ISO 7783:2011 Crack bridging ASTM C1305	0.59 g/m ² *24h Passed
Adhesion to limestone	2,1 n/mm ²
Adhesion to PVC Adhesion to zinc	1,4 n/mm ²
Adhesion to aluminum	1,9 n/mm ²
Adhesion to concrete	2,7 n/mm ²
Adhesion to wood	2,07 n/mm ²
Tensile strength ASTM D638 Elongation % ASTM D638 Recovery %	2,9 n/mm ²
Salt resistance ASTM B117-09	Passed (>90% original value) 850% >90%
Air permeability ASTM E2178	Passed >1200h 0.0004 L/(s.m ²) at 75 Pa



DECLARATION OF PERFORMANCE

Construction Products Regulation (CPR) EU 305/2011