

Technical Data Sheet

Liquid Rubber® BelowGrade

WATERPROOF PROTECTIVE COATING FOR BELOW-GRADE APPLICATIONS

PRODUCT DESCRIPTION

Liquid Rubber BelowGrade is an elastomeric, modified bitumen emulsion; an environmentally friendly, water-based product that is free from volatile organic compounds (VOCs) and is cold-applied. After curing, the product forms a seamless, permanently elastic membrane.

Liquid Rubber BelowGrade is used as a waterproof membrane for concrete basements, decks, foundations, and various timber structures.

APPLICATION

General

Liquid Rubber BelowGrade functions as a protective coating against the ingress of water, salts, and other chemicals. **Liquid Rubber BelowGrade** provides waterproof protection for applications such as concrete basements, decks, and tunnels. It can also be used as corrosion protection on various ferrous substrates.

Liquid Rubber BelowGrade is a two-component system consisting of two separate components that are automatically mixed during application by the HVLP spray system.

Preparation and Application

The substrate must be dry, clean, and free from dust, dirt, grease, and oil. Application must not take place during rain or under wet conditions.

Liquid Rubber BelowGrade is applied using an HVLP two-component spray system, specifically developed for Liquid Rubber products.

Consumption and Drying Time

Liquid Rubber BelowGrade is applied at a consumption rate of 2.7 kg/m² to achieve a membrane thickness of 2 mm.

At an ambient temperature of 20 °C, **Liquid Rubber BelowGrade** becomes touch-dry within 1 minute and is fully cured after 24-48 hours. Curing time depends on temperature and relative humidity.

An experienced applicator can spray an average of 350–750 m² per day. If additional protection is required, a protective or insulation layer can be applied on average 20 minutes after application.



LIMITATIONS

Liquid Rubber BelowGrade is mildly alkaline. During application, standard personal protective equipment must be worn, including gloves and eye protection. Please consult the Safety Data Sheet (SDS) for additional safety information.

Liquid Rubber BelowGrade must not be applied at an ambient temperature below 5 °C. An uncured membrane may be damaged if it freezes. Do not apply to wet or frozen substrates or immediately prior to rainfall.

WARNING

For professional use only. Keep out of reach of children. Storage and use must comply with applicable safety guidelines. Consult the Safety Data Sheet (SDS) before use.

TECHNICAL SERVICE

T: +31(0)297587866

F: +31(0)297587861

E: info@liquidrubbereurope.com

W: www.liquidrubber.nl

Groot Mijdrechtstraat 15
3641 RV Mijdrecht

PHYSICAL PROPERTIES (LIQUID)

Property	Typical Results
Color	Brown (liquid) to black (cured membrane)
Specific gravity (liquid), g/cm ³	Approx. 1.0
Odor	None
Volatile Organic Compounds (VOC)	Contains no solvents
Solids content	53–58%
Viscosity, Brookfield (cps)	1–100
pH	10–12

COVERAGE

Cured membrane

mm 2.00	kg/m² 2.7	sealing waterproof
-------------------	--------------------------------	------------------------------

PERFORMANCE (CURED MEMBRANE)

Property	Typical Results
Water absorption coefficient – NEN-EN-ISO 15148:2002	0.00011 kg/m ² ·s ^{0.5}
Water vapour diffusion resistance – EN ISO 7783:2011	Sd > 50 m (154 m) (Class III, vapour-tight)
Water impermeability – EN 1062-3	Class W3 (0.0014 kg/m ² ·h ^{0.5})
Depth of water penetration under pressure – NEN-EN 12390-8	7.5 bar
CO ₂ diffusion resistance – EN 1062-6 / EN 1062-11	Sd > 50 m (456 m)
Crack bridging – EN 1062-7:2004 Method A – C.2	Class A5 (> 2.5 mm), passed
Adhesion to concrete – EN 1542	1.6 N/mm ²
Adhesion to wet concrete – EN 13578	1.5 N/mm ²
Elongation at break – EN ISO 527-3 / ASTM D638	1200%
Elastic recovery – CGSB 37.58	> 50%
Hardness – EN ISO 868 / ASTM D2240	74.6 Shore 00
Airtightness – EN 1928:2000	Passed
Salt spray resistance – EN ISO 9227 / ASTM B117	Passed (>1,200 hours)
Chemical resistance – EN 1062-6 / EN 1062-11	No degradation
Thermal compatibility – EN 13687-1 / EN 13687-2	No degradation
Ageing stability of tensile strength – EN ISO 527-3 / ASTM D638	90% retention of tensile strength

DECLARATION OF PERFORMANCE

according to Regulation (EU) No 305/2011
(Construction Products Regulation)