LIQUID RUBBER® WORLDWIDE — TECHNICAL DATA SHEET

baselar®

WATERPROOFING • BELOW-GRADE • DAMP-PROOF

A single-component **undercoat waterproofing** membrane for below-grade and underlayer applications — seamless, flexible and reinforced, sealing substructures against water ingress and hydrostatic pressure.

• PRODUCT CODE · BSL 101

Product Overview

BaseLar® is an advanced, single-component waterproofing system developed for underlayer, above-grade and below-grade positive-side applications. It creates a seamless, flexible and reinforced membrane that effectively prevents water ingress, moisture penetration and structural damage in concealed and substructure areas.

Engineered for podium decks, terraces under screed or tiles, foundations and basements, BaseLar® combines excellent adhesion, crack-bridging capability and resistance to hydrostatic pressure. Used with reinforcement fabric it forms a robust system able to handle structural movement and long-term load — its water-based formulation allowing safe, easy application without heating or complex equipment, an efficient alternative to sheet and bitumen systems.

Key Features

- Single-component, water-based waterproofing system
- Seamless, flexible, crack-bridging membrane
- Compatible with reinforcement-fabric system
- Strong adhesion to concrete and masonry
- Resists hydrostatic pressure and moisture ingress
- Easy application by brush or roller

Key Benefits

- Prevents water ingress in substructures and concealed areas
- Ensures long-term damp-proofing and durability
- Handles structural movement and load conditions
- Eliminates risks associated with sheet-membrane joints
- Reduces maintenance and repair costs
- Safer, easier alternative to bitumen systems

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Technical Properties

Representative values for BaseLar® in its liquid and fully-cured states — characterising handling behaviour, mechanical strength and long-term below-grade performance.

PHYSICAL PROPERTIES	LIQUID
Colour	Brown to Black
Specific Gravity	Approx. 1.0
Odour	None
Volatile Organic Compound	Contains no solvents
Solids Content	60% – 63%
Viscosity (sec)	20 – 25
pH	10 – 12

TEST BASIS

Values are typical, determined under standard conditions (23°C / 50% RH) unless otherwise stated. Actual figures may vary with substrate, film thickness, reinforcement and curing environment. Cured-film data reflects a fully reinforced system where applicable.

PERFORMANCE	CURED MEMBRANE
Colour	Black
Specific Gravity	Approx. 1.0 g/cm³
Chemical Resistance	Resists salt water & most inorganic solutions
Biological Resistance (ASTM E154 / D412)	Passed
Impact Resistance (CGSB 37-GP-56 @ 23°C)	Passed (168)
Water Tightness after Impact	Passed — no leakage
Accelerated Weathering (Xenon arc)	No deterioration of the film
ASTM G155 · 250 hrs	>90% tensile-strength retention
Tensile Strength (ASTM D412)	>830 kPa (>120 psi)
Elongation	>850%
Recovery (ASTM D412)	90%
Hardness · Durometer 00	85
Hardness · Shore A	20
Hardness · Shore D	4
Adhesion to Concrete (DeFelsko)	>1240 kPa (>180 psi)
Adhesion to Concrete (ASTM C836)	303 N/m (17 lb/in)
Puncture Resistance (CGSB 37-GP-56)	Passed — no punctures
Sag Flow	None
Blistering (ASTM D714, 1000 hrs)	None
Abrasion Resistance (ASTM F1677)	Good – very good
Water-Vapour Permeance (ASTM E96)	4.99 ng/Pa·s·m²
Permeability (ASTM E96)	0.071 ng/m·Pa·s
Air Permeance (ASTM E2178)	0.0004 L/s·m²
Methane Permeability (ASTM D1434-82)	1.88×10^{-8} cm³/s·atm
Thermal Resistance (ASTM C518-04)	0.028 (2.66 / ply)

Usage & Application

Application Method

01 Surface must be clean, dry and free from dust, oil and contaminants

02 Apply as a single-component system by brush or roller

03 Apply in uniform layers to achieve the required thickness

04 Reinforce with fabric where structural movement is expected

05 Application temperature: +5°C to +30°C

06 Avoid wet or frozen surfaces; drying time 24–48 hrs

Top-Coat Compatibility

Compatible with any water-based paint, cementing or tiling work applied on top, after a minimum of **10 days** from application.

Limitations

Do not apply below 5°C (41°F) or to wet / frozen surfaces; the uncured membrane may be damaged if frozen. Do not apply if rain is imminent within 24 hours. Some base materials such as coal tar are unsuitable with Liquid Rubber®. Consult technical service with any questions.

Where to Apply

Basements & Underground
Foundations, retaining walls, lift pits, tunnels and concrete pipes.

Foundations & Podium Decks
Foundation slabs, footings, podium decks, terraces, roof slabs and balconies.

Parking & Under-Screed
Parking decks, exposed horizontal surfaces and under screed / tile waterproofing.

Water-Retaining Structures
Water and wastewater retaining structures for every project type.

New Build, Renovation & Repair
Waterproofing for new construction, renovation and repair works.

Residential to Industrial
Substructure and superstructure applications across all building types.

COVERAGE

- Concrete / masonry surfaces — approx. 8–14 sq.ft / L per coat
- Reinforced system (with fabric) — approx. 6–8 sq.ft / L total
- Below-grade applications — minimum 2 coats recommended
- Additional coats for high hydrostatic-pressure areas
- Coverage varies with surface porosity and roughness

Warranty & Compliance

WARRANTY

BaseLar® is supported by a manufacturer's warranty for below-grade and underlayer waterproofing applications. Applied as a complete system — including reinforcement where required — it ensures reliable, long-term protection against water ingress. Warranty is valid only when recommended application procedures, system build-up and surface preparation are followed.

CAUTION

Keep out of reach of children. Avoid storage below 5°C and under direct sunlight. Liquid Rubber® is mildly alkaline — wear gloves, eye protection and suitable PPE when applying. Consult the MSDS before use.

PACKAGING	**Bucket** — 20 L | **Totes** — 1000 L (bulk order, on request) | Shelf life **12 months** from manufacture, in original sealed packaging.
STORAGE	Store in tightly closed, undamaged containers in a dry place above +5°C. Protect from freezing and reseal partly-used containers promptly.
COLOUR	**Black** *standard finish — other options subject to enquiry

IMPORTANT NOTES

- Manufacturer guarantees 100% product authenticity.
- Beware of DUPLICATE Liquid Rubber® products.
- Refer to www.liquidrubberworldwide.com for the most up-to-date Product Data Sheets.
- All Safety Data Sheets (SDS) align with Globally Harmonized System (GHS) requirements.