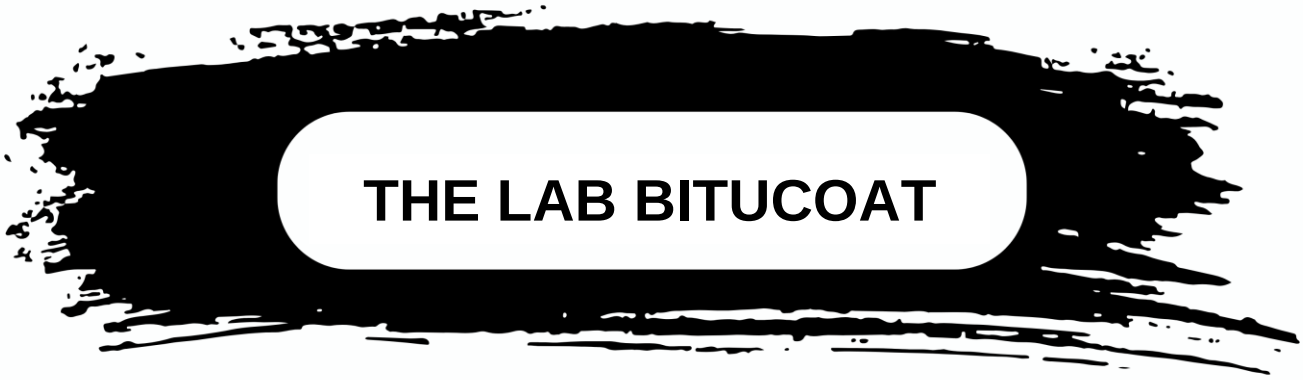
THE LAB®

Chemicals & Coatings

Technical and Material Safety Data Sheet

Version: 2026



THE LAB BITUCOAT
Product Family: Specialised Protective Systems (Water-Based Bituminous Waterproofing Coating)

Typical System Guidance

Typical waterproofing system:

1 Clean and prepare the substrate
2 Repair cracks or joints where necessary
3 Apply first coat of **THE LAB BITUCOAT**
4 Reinforce joints or cracks with reinforcing fabric if required
5 Apply second coat to achieve full waterproof membrane

Additional coats may be applied depending on waterproofing requirements and exposure conditions. Routine inspection and maintenance is recommended to maintain long-term coating performance.

Product Description

THE LAB BITUCOAT is a water-based modified bitumen coating designed to provide waterproofing and protective sealing to a wide range of construction substrates. The product forms a seamless, flexible waterproof membrane when cured, offering effective protection against moisture ingress and environmental exposure.

The coating is formulated using elastomeric bitumen emulsion technology which provides excellent flexibility and adhesion to common building materials. Because it is water-based and solvent-free, the product is environmentally friendly and can be applied with minimal odour and reduced safety concerns compared to traditional solvent-based bitumen coatings.

THE LAB BITUCOAT is typically used for waterproofing roofs, retaining walls, slabs, planter boxes and other building structures where a durable waterproof membrane is required. Once cured, the coating forms a strong and flexible film that resists cracking and provides long-term moisture protection.

The cured membrane also assists in reducing noise and vibration on suitable metal structures.

Technical Data Summary

Product Type	Water-Based Bitumen Waterproofing Coating
Colour	Brown to Black
Specific Gravity	+/- 1.0
Solids Content	+/- 53 – 58 %
pH	10 – 12
Viscosity	15 – 20 SSF @ 25°C
VOC	Solvent Free
Application Method	Brush / Roller / Spray
Coverage	+/- 1.5 – 4 m² per litre depending on film thickness
Cure Time	+/- 24 – 48 hours
Property	Value
Finish	Flexible Waterproof Membrane
Recommended Coats	Minimum 2
Touch Dry	+/- 1 hour*
Recoat	Minimum 12 hours
Full Cure	24–48 hours*
Application Temperature	15–40°C

Performance Characteristics (Cured Membrane)

Tensile Strength	>80 psi
Elongation	>750%
Salt Fog Resistance	Passed
Surface Corrosion	None Detectable
Blister Resistance	None
Puncture Resistance	Passed
Accelerated Weathering	Passed
Hardness	85–87

These values are typical laboratory results and serve as a guide only. Practical coverage will vary depending on surface profile, porosity and application method.

Intended Uses

THE LAB BITUCOAT is designed for waterproofing and protective coating applications on construction surfaces.

Typical uses include:

- Waterproofing of roofs
- Coating of retaining walls
- Waterproofing of planter boxes
- Protection of concrete slabs
- Waterproofing of decks and wet areas
- Protection of metal surfaces against corrosion
- Damp proofing and moisture protection of building structures
- Ponds
- Tanks
- Troughs
- Vapour barrier between slabs
- Noise and vibration reduction

The product can be applied to concrete, masonry, steel, wood and other common construction substrates.

Principal Characteristics

- Water-based environmentally friendly formulation
- Solvent-free waterproofing membrane
- Flexible and durable coating film
- Excellent adhesion to common building materials
- Easy application by brush, roller or spray
- Low odour during application
- Resistant to moisture and weather exposure
- Seamless waterproof membrane when cured
- Non-toxic
- Non-flammable
- Permanently flexible
- Good chemical resistance
- Quick-setting formulation
- Suitable for spray application

Limitations

- Product is mildly alkaline.
- Do not apply below 15°C.
- Do not apply before rain.
- Do not apply to wet substrates.
- Protect uncured membrane from freezing.
- Some coal-tar-based substrates are unsuitable.

Surface Preparation

All surfaces must be clean, dry and free from grease, oil, dust and loose material prior to application.

Concrete and masonry surfaces should be free of laitance and contaminants. Loose particles and friable material must be removed.

Metal surfaces should be cleaned and free from rust, grease and oil. Rusted areas should be mechanically cleaned before coating.

The substrate must be dry prior to application. The product should not be applied to wet surfaces.

Reinforce joints and cracks using polyethylene reinforcing fabric where specified

Application Guidelines

THE LAB BITUCOAT may be applied by brush, roller or airless spray equipment.

Apply a minimum of two coats to achieve uniform coverage and durability.

Prior to application, always follow these basic product checks:

- Inspect packaging and ensure containers are sealed, undamaged and within shelf-life
- Open product and visually inspect for abnormalities, contamination, skinning or separation
- Stir product thoroughly before and during use where required
- For multi-component products, ensure correct mixing ratios and induction periods are followed
- Confirm substrate condition, moisture levels and environmental conditions are suitable
- Conduct a small test patch to confirm adhesion, appearance and compatibility prior to full application

- Product supplied ready for use.
- Apply in thin, even coats.
- Minimum drying time of approximately 12 hours between coats.
- Avoid application in high humidity.
- Application temperature 15–40°C.

Do not apply coatings when:

- Ambient temperature is below 10°C
- Rain is imminent
- Surfaces are wet or contaminated

Ensure recommended spreading rates are maintained to achieve correct film thickness. Allow adequate drying time between coats.

Storage

Store in original sealed containers in a cool, dry and well ventilated area away from direct sunlight.

Protect the product from freezing.

Shelf life is typically **12 – 24 months** when stored in original unopened containers under suitable conditions.

Protect the uncured product from freezing.

Technical Advisory, Specification Support and Disclaimer

The technical information, recommendations, specifications and system guidance contained in this document are provided in good faith and are based on laboratory testing, field experience and current product knowledge available at the date of publication. Such information is intended solely to assist specifiers, contractors, applicators and end users in selecting and applying suitable coating systems and does not relieve any party from independently assessing product suitability for the intended application and site conditions.

The performance of any coating system is materially dependent upon factors beyond the control of The Lab Chemicals & Coatings, including but not limited to correct substrate assessment, cleaning and decontamination procedures, surface preparation, substrate condition, moisture content, environmental conditions, product storage and handling, mixing procedures where applicable, film thickness achievement, adherence to specified system build requirements, application techniques and ongoing maintenance practices.

Failure to strictly follow the instructions, specifications, limitations and recommendations contained within this Technical Data Sheet, associated specifications, written recommendations or supplementary documentation may adversely affect product performance and may invalidate performance expectations, warranties or related claims.

Users are strongly advised to conduct suitability trials and test applications under actual site conditions prior to full-scale application.

To the best of our knowledge, the information contained herein is true and accurate at the date of issue and remains subject to change without prior notice. Users are advised to contact The Lab Chemicals & Coatings prior to specification or ordering to ensure that the correct product and system are selected for the intended application.

No guarantee, representation or warranty is given or implied regarding the completeness or suitability of information contained herein. Technical recommendations and advice do not constitute a performance guarantee unless expressly confirmed in writing by an authorised representative of The Lab Chemicals & Coatings.

The Lab Chemicals & Coatings accepts no responsibility or liability for product failure, defects, damage, consequential losses, injuries or unsatisfactory performance arising from incorrect substrate preparation, unsuitable application conditions, deviation from specified system requirements, misuse, unauthorised product modification, incorrect application methods or use outside documented recommendations. Liability, if any, shall be limited solely to replacement of proven defective product.

The above information must be read in conjunction with the General Terms and Conditions of The Lab Chemicals & Coatings (Pty) Ltd and The Lab George (Pty) Ltd, available at: www.thelabcc.co.za or upon request.

Material Safety Data

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION
CAS no. : N/A
EC no. : N/A
UN No. : 1263 SAPMA: 4-H-C
In emergency contact: The Lab Chemicals & Coatings @ 0845071767

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS
EC Classification: Not classified as hazardous
No significant quantity of classified hazardous substances present.
(CL/RL = Controlled/Recommended level 'S' = Skin annotation)

SECTION 3. HAZARDS IDENTIFICATION
SAPMA Health Rating: 4-MINIMAL - No great risk to health
Inhalation: Avoid exposure to vapours, fumes and mists.
Skin: No hazard expected if used in moderation.
Eyes: No direct hazard is expected but possible contact with any chemical must always be avoided.
Ingestion: Irritating and nauseating.
No carcinogenic, mutagenic or genetic effects established
May have short term environmental effects. Contain, monitor & remove.

SECTION 4. FIRST AID MEASURES
Inhalation: Move to fresh air.
Skin: Always wash after handling chemical substances.
Eyes: In case of any contact and discomfort rinse well with water and seek medical advice.
Ingestion: Wash mouth with plenty of water. Do NOT induce vomiting. Seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES
Dried residues - combustible with toxic fumes.
No direct explosion hazard expected.

SECTION 6. ACCIDENTAL RELEASE MEASURES - SEE ALSO SECTIONS 5, 8, 13
Contain & collect. Keep out of drains and sewers

SECTION 7. HANDLING AND STORAGE
Store separately from any reactive substances - oxidisers in particular.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
SAPMA Rating: 4-H-C PPE: Eye protection
Inhalation: In case of insufficient ventilation, use suitable respiratory protection.
Skin: Use only as directed.
Eyes: Avoid direct contact. Never touch eyes with dirty hands or gloves.
Ingestion: Observe the rules for hygiene. Wash before eating, drinking or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
Chemical class: Non-hazardous material Description: Viscous liquid Smell: Pungent
FlashPoint (C): N/A

SECTION 10. STABILITY AND REACTIVITY
Stable under normal conditions
Inert - no reaction with fire-fighting water

SECTION 11. TOXICOLOGICAL INFORMATION
No carcinogenic, mutagenic or genetic effects established

SECTION 12. ECOLOGICAL INFORMATION
May have short term environmental effects. Contain, monitor & remove.

SECTION 13. DISPOSAL INFORMATION
Use reputable waste disposal contractors. Exercise caution in disposal of used containers.

SECTION 14. TRANSPORT INFORMATION
Not classified as dangerous for transport

SECTION 15. REGULATORY INFORMATION
EC no. : N/A
EC Classification: Not classified as hazardous
S2 - Keep out of reach of children. (Retail sales items)

SECTION 16. OTHER INFORMATION
IN CASE OF ANY DISCOMFORT ALWAYS SEEK MEDICAL ADVICE.

This MSDS conforms to General Administrative Regulations of 6 Sept.1996 (ISO-11014/ANSIZ400.1.1996)
OELs derived from OHS Act Regulations for Dangerous Chemical Substances of 25 Aug.1995 (EH-42)
SAPMA Rating - South African Paint Manufacturers Association Guide to Health Hazards (SABS ARP 006:1991) All information is given in good faith but without guarantee in respect of accuracy. No responsibility is accepted for errors or omissions or the consequences thereof.