

THE LAB[®]

Chemicals & Coatings



Technical and Material Safety Data Sheet

Version: 2026



THE LAB BIO MINEPROOF

THE LAB BIO-MINEPROOF

Product Family: **Sealers** (Water-Based Acrylic Protective Coating)

Typical System Guidance

Typical Protective Coating System

1. Inspect the substrate and ensure it is clean, dry, sound and suitable for coating.
2. Remove grease, dirt, loose or friable material and poorly adhered existing coatings.
3. Clean contaminated surfaces with **THE LAB BIO-WASH**, rinse thoroughly and allow to dry.
4. Sand existing enamel or oil-painted surfaces to a uniform matt finish.
5. Prime suitably prepared substrates with **THE LAB BIO-PRIME** or another appropriate The Lab primer as specified.
6. Seal chalked PVA or distempered surfaces with **THE LAB BIO-PROOF** where required.
7. Apply **THE LAB BIO-MINEPROOF** by brush, roller or suitable spray equipment.
8. Apply subsequent coat(s) after the minimum specified recoat period.
9. Allow the completed coating system to cure before placing into normal service.

Trial patches are recommended prior to full application, particularly where substrate or coating compatibility is uncertain.

Product Description

THE LAB BIO-MINEPROOF is a high-quality, water-based acrylic emulsion coating formulated to provide decorative and protective performance on suitably prepared substrates in moderate environments.

The product produces a low-sheen to silk finish and is available in a range of colours. It provides excellent UV stability, a degree of elasticity when fully cured and waterproofing qualities after cure.

BIO-MINEPROOF is non-combustible when applied as a coating and may act to retard the spread of flame. The water-based formulation has very low VOC content and does not require solvent thinning or solvent-based cleaning.

The coating is suitable for plastered walls, ceilings and other appropriately prepared substrates where a durable eggshell-to-silk decorative and protective finish is required.

Technical Data Summary

Property	Typical Value
Product Type	Water-Based Acrylic Protective Coating
Binder Type	Acrylic Emulsion
Finish	Low Sheen / Silk
Colour Range	White plus a Range of Colours
Solids Content	Approximately 43%
Solids by Volume	Approximately 46%
Pigment Volume Concentration (PVC)	Approximately 29%
Specific Gravity	Approximately 1.2
Theoretical Coverage	8–10 m ² /L*
Recommended DFT	25–30 µm per Coat
Recommended WFT	50–75 µm per Coat
Touch Dry	15–30 minutes @ 20°C, RH <75%
Recoat / Overcoat	Approximately 60 minutes @ 20°C, RH <75%
Normal Service	Approximately 24 hours
Pot Life	No Limitation
Solvent	Water
Thinning	Do Not Thin
Application Temperature	5°C–40°C
Maximum Relative Humidity	85%
Substrate Temperature	Minimum 2°C above Dew Point
Application Methods	Brush / Roller / Spray
Clean Up	Water
Flash Point	Not Applicable – Water-Based / Non-Flammable
Packaging	1L / 5L / 20L
Shelf Life	2 Years when Properly Sealed

Theoretical spreading rate is based on a smooth surface at approximately 29 µm DFT. Practical coverage will vary according to substrate profile, porosity, surface roughness and application method.

Intended Uses

THE LAB BIO-MINEPROOF is recommended for:

- Plastered walls
- Ceilings
- Concrete
- Masonry
- Suitably prepared metal surfaces
- Previously painted surfaces after appropriate preparation
- Decorative protective coating applications
- Areas requiring an eggshell-to-silk finish
- Moderate service environments
- Applications requiring UV-stable decorative protection
- Selected applications requiring additional corrosion protection as part of an appropriate coating system

The product may be used on other compatible substrates where recommended by The Lab.

Principal Characteristics

- High-quality water-based acrylic emulsion
- Low-sheen to silk finish
- Excellent adhesion when used over the appropriate THE LAB primer
- Excellent UV stability
- Good weathering resistance
- Degree of elasticity retained after full cure
- Waterproofing qualities when cured
- Quick drying
- Multiple coats may be applied in the same day
- Very low VOC content
- Low odour
- No solvent required for thinning
- Water clean-up
- Supplied ready for application
- Non-flammable as a water-based liquid coating
- Non-combustible when applied to a surface
- May act to retard the spread of flame
- Available in a range of colours
- Suitable for decorative and protective applications in moderate environments

Limitations

THE LAB BIO-MINEPROOF is not recommended:

- For substrates permanently submerged in water.
- On dirty, damp, contaminated, friable or structurally unsound surfaces.

- Where an existing coating is poorly adhered.
- Where substrate compatibility has not been established.
- Below 5°C or above 40°C.
- Where relative humidity exceeds 85%.
- Where the substrate temperature is less than 2°C above the dew point.
- Where condensation is present or likely during application.
- Without the appropriate primer where priming is required.

Do not thin **THE LAB BIO-MINEPROOF**.

Do not apply where adverse environmental conditions may prevent proper drying and film formation.

Where compatibility with an existing coating or substrate is uncertain, apply a trial patch before proceeding with the complete application.

Surface Preparation

All surfaces must be clean, dry, sound and free from grease, oil, dust, loose material, friable matter and contaminants that may impair adhesion.

General Cleaning:

Previously painted and old primed surfaces must be thoroughly cleaned.

Remove grease, dirt and contamination using **THE LAB BIO-WASH**.

Rinse thoroughly where applicable and allow the surface to dry completely before coating.

Concrete, Plaster and Masonry:

Ensure surfaces are sound, clean and properly prepared.

Prime with **THE LAB BIO-BOND** or the appropriate The Lab primer as specified for the particular substrate and coating system.

Surface roughness and porosity must be considered when calculating practical spreading rates and required film build.

Metal Surfaces:

Prepare the metal substrate appropriately and apply the specified The Lab primer or protective coating system before applying **BIO-MINEPROOF**.

The source specification identifies **THE LAB BIO-RUST** as one of the preparation/primer options for suitable surfaces.

Previously Painted Surfaces:

Remove loose, peeling and poorly adhered coatings.

Old enamel or oil-painted surfaces must be sanded to a uniform matt finish.

Remove all sanding dust and contamination before coating.

Previously painted surfaces must be cleaned using **THE LAB BIO-WASH** where grease, dirt or contamination is present.

Chalked PVA or Distempered Surfaces:

Chalked PVA or distempered surfaces should be suitably stabilised and sealed with **THE LAB BIO-PROOF** before applying the coating system.

Application Guidelines

THE LAB BIO-MINEPROOF is supplied ready for application.

Do not thin.

Stir thoroughly before and during application.

Apply using:

- Brush
- Roller
- Suitable spray equipment

Apply evenly to the correctly prepared and primed substrate.

Recommended film thickness per coat:

- **WFT:** 50–75 µm
- **DFT:** 25–30 µm

Allow approximately **60 minutes** before overcoating under the specified standard conditions.

Normal service may generally be achieved after approximately **24 hours**, subject to environmental conditions, film thickness and substrate.

Surface roughness will affect both wet and dry film thickness measurements.

Individual applicators must ensure that the specified film build is achieved using their particular application equipment and method.

Drying & Curing Conditions:

Published drying data is based on:

20°C and relative humidity below 75%

Under these conditions:

- **Touch Dry:** 15–30 minutes
- **Recoat / Overcoat:** Approximately 60 minutes
- **Normal Service:** Approximately 24 hours

Drying and curing times will be affected by:

- Temperature
- Relative humidity
- Air movement
- Film thickness
- Substrate temperature
- Surface porosity

Lower temperatures and higher humidity may extend drying and curing times.

Environmental Application Conditions:

Parameter	Requirement
Minimum Paint Temperature	5°C
Maximum Paint Temperature	40°C
Minimum Substrate Temperature	5°C
Maximum Substrate Temperature	40°C
Minimum Environmental Temperature	5°C
Maximum Environmental Temperature	40°C
Maximum Relative Humidity	85%
Substrate vs Dew Point	Minimum 2°C above Dew Point

Do not apply under conditions where condensation may form on the substrate.

Fire Performance:

The existing **BIO-MINEPROOF** technical documentation states that:

- The applied coating is non-combustible.
- It may act to retard the spread of flame.
- The product causes no flame spread according to the existing product description.
- A toxic gas factor of **1.0** is stated in the existing safety documentation.

These characteristics relate to the product as described and tested within the existing technical documentation.

Any project requiring a specific regulated fire rating, fire-resistance classification or statutory fire-performance certification must be assessed against the applicable test certificate and project specification.

Waterproofing Performance:

When fully cured, **THE LAB BIO-MINEPROOF** displays waterproofing qualities.

The product is not recommended for permanent water immersion.

BIO-MINEPROOF should therefore not be interpreted as a substitute for a dedicated waterproofing membrane or immersion-grade coating unless specifically approved for the intended system and exposure conditions.

Compatible Coatings:

Compatibility should be confirmed before applying **BIO-MINEPROOF** over existing coatings or before applying other coating systems over **BIO-MINEPROOF**.

A trial patch is recommended before full application where compatibility is uncertain.

Contact The Lab for project-specific coating system recommendations where required.

Storage

Store in the original, tightly sealed container in a cool, dry and well-ventilated area.

Protect from:

- Direct sunlight
- Extreme heat
- Sources of ignition
- Freezing conditions

Recommended storage range:

5°C–40°C

Do not allow the product to freeze.

Shelf Life: Approximately **2 years** when properly sealed and stored under recommended conditions.

Rotate stock on a first-in, first-out basis.

Disposal:

Contain spillages using suitable non-flammable absorbent material such as sand, earth or an appropriate chemical binder.

Collect contaminated material into a suitable labelled container.

Do not use solvents for spill clean-up.

Dispose of unused product, contaminated material and empty packaging in accordance with applicable local waste regulations.

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 ROOF COATINGS Superior protection against harsh weather conditions.	 WALL COATINGS Beautiful, durable finishes for interior and exterior walls.	 FLOOR COATINGS High performance floor systems for every environment.	 PRIMERS The perfect foundation for lasting adhesion and performance.	 SEALERS Protect and seal surfaces with advanced sealer technologies.	 TWIN PACKS & EPOXIES High build, chemical resistant systems for extreme performance.	 CEMENTITIOUS SYSTEMS Engineered mortar and coatings for concrete protection.	 DEGREASERS & SURFACE PREPARATION Clean, prepare and ensure maximum adhesion.	 SPECIALIZED PROTECTIVE SYSTEMS Specialised solutions for the toughest protection needs.
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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.