THE LAB®

Chemicals & Coatings

Technical and Material Safety Data Sheet

Version: 2026

BIO-GUARD
Product Family: Sealers

Typical System Guidance

A typical clear protection system consists of substrate cleaning using **THE LAB BIO-WASH** where required, treatment of fungal contamination with **THE LAB BIO-ALGAE** where necessary, spot preparation of unstable areas, followed by application of **THE LAB BIO-GUARD** as the final clear protective sealer. Where a primer is required on very porous or unstable areas, **THE LAB BIO-PRIME** should be used.

Product Description

BIO-GUARD is a clear water-based acrylic sealing membrane designed to protect and preserve the natural appearance of porous and semi-porous substrates while improving water resistance and long-term durability. The product penetrates into the surface and forms a clear protective barrier that resists water ingress, dusting, efflorescence, staining and weathering. It is particularly well suited where the natural look of the substrate must be retained while still adding a waterproof and abrasion-resistant protective layer.

BIO-GUARD is suitable for use on surfaces such as roof tiles, brickwork, stone, timber details, concrete and selected decorative natural finishes. The pure acrylic emulsion system also helps to bridge minor hairline cracking and offers good resistance to ultraviolet exposure, heat and general environmental deterioration. It is a strong choice where a contractor needs a clear protective coating rather than a pigmented finish.

Technical Data Summary

Product Type	Pure acrylic emulsion
Colour	Clear, or tinted stains such as Ebony, Oak and Mahogany
Finish	Clear protective finish
UV Resistance	Excellent
Chemical Resistance	Excellent
Water Resistance	Excellent
Hardening Resistance	Excellent
Volume Solids	+/- 37 %
Specific Gravity	+/- 1.00 kg/L
Viscosity	+/- 18-20 KU
Full Cure	+/- 24 hours
Coverage	+/- 10–15 m²/L depending on substrate
Recommended WFT	+/- 28 microns
Recommended DFT	+/- 18 microns
Recommended Coats	Minimum two coats
Surface Temperature Limits	10 – 13 °C
Relative Humidity Limits	< 50°C
Clean Up	Water
VOC	Low VOC typical of water-based acrylic coatings
Storage	+/- 12 months when stored under correct conditions.

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

The original sheet also notes that the product is a clear acrylic electrometric membrane with strong sealing and waterproofing characteristics.

Intended Uses

BIO-GUARD is intended for use as a clear waterproofing and preservation coating on substrates where the natural colour and appearance must be maintained. Typical uses include face brick, stone, roof tiles, timber doors and frames, decorative concrete and selected fibreglass reinforcement applications. It is suitable where waterproofing, dust reduction and improved surface life are required without obscuring the natural substrate appearance.

Principal Characteristics

BIO-GUARD provides excellent ultraviolet resistance, good flexibility, strong adhesion and high resistance to staining and weathering. The product does not discolour significantly with age and helps protect against efflorescence while maintaining a clear finish. It also assists with dust suppression and can bridge minor hairline cracks within the substrate.

Surface Preparation

All surfaces must be clean, dry and free from grease, oil, laitance, dust and other contaminants before application. Concrete should be allowed to cure adequately before sealing. Older masonry surfaces may require pressure cleaning or sandblasting where appropriate. Timber surfaces should be wiped clean and loose coatings or residues removed before application. Application should take place under suitable weather conditions, and the substrate must be dry enough to allow effective penetration and curing of the sealer.

Application Guidelines

BIO-GUARD 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

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 at moderate temperatures in a cool, dry and well-ventilated area. Protect from freezing and from excessive heat or prolonged direct sunlight.

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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.