THE LAB®

Chemicals & Coatings

Technical and Material Safety Data Sheet

Version: 2026

BIO-RUST
Product Family: Primers (Metal Protection Primer / Anti-Corrosion Coating)

Typical System Guidance

Typical metal protection system:

1. Surface cleaning using **THE LAB PREP**
2. Apply **BIO-RUST Primer**
3. Apply suitable **THE LAB Topcoat System**

For coastal or aggressive industrial environments additional protective coats may be required. Routine inspection and maintenance is recommended to maintain long-term coating performance.

Product Description

BIO-RUST is a water-based anti-corrosion primer designed to protect metal surfaces from rust formation and environmental deterioration. The coating forms a durable protective barrier that inhibits oxidation while providing strong adhesion to a wide range of ferrous metal substrates.

The product is environmentally friendly with extremely low VOC emissions and produces no harmful fumes during application. **BIO-RUST** provides long-term protection against moisture, ultraviolet exposure and salt contamination, making it suitable for structural steel, roofing sheets, pipelines and general metal infrastructure.

The coating dries to a durable satin finish and is available in standard colours including black, green and modern red.

Technical Data Summary

Colour	Black / Green / Modern Red
Finish	Satin / Eggshell
Binder Type	Pure Acrylic
Volume Solids	+/- 47 %
Specific Gravity	+/- 1.20 kg/L
Application Methods	Brush, Roller or Spray
Touch Dry	+/- 60 minutes
Recoat Time	+/- 2 hours
Viscosity	+/- 95 – 100 KU
Recommended WFT	+/- 85 microns
Recommended DFT	+/- 47 microns
Surface Temperature Limits	10 – 13 °C
Relative Humidity Limits	< 50°C
Coverage	+/- 8 – 10 m²/L
Clean Up	Water
VOC	Low VOC typical of water-based acrylic coatings
Shelf Life	+/- 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

Intended Uses

BIO-RUST is designed for the protection of metal substrates exposed to weathering and corrosion. Typical applications include mild steel structures, galvanised steel surfaces, corrugated iron roofing, fencing, gates and general industrial metal infrastructure.

The coating may be used in residential, commercial and industrial environments where long-term rust protection is required. Not recommended for permanently submerged surfaces or areas subject to continuous water exposure.

Principal Characteristics

- Excellent anti-corrosion performance
- Strong adhesion to metal surfaces
- UV and weather resistant
- Good abrasion resistance
- Fast drying formulation
- Flexible coating with good durability
- Water and salt resistant
- Low VOC environmentally friendly formulation
- Suitable for interior and exterior use

Surface Preparation

All surfaces must be clean, dry and free from grease, oil, dust and loose contaminants before coating.

Remove rust, scale and deteriorated coatings using mechanical methods such as wire brushing, sanding or grinding. Clean all surfaces using **THE LAB PREP** to remove oils and contaminants, then rinse thoroughly with clean water.

Previously painted surfaces should be lightly sanded to provide a suitable key for adhesion. Ensure surfaces are completely dry before coating.

Application Guidelines

BIO-RUST may be applied by brush, roller or airless spray equipment.

Apply a single coat 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 in a cool, dry and well-ventilated area away from direct sunlight and extreme temperatures.

Keep containers tightly closed when not in use. Under correct storage conditions the product has an approximate shelf life of **12 months**.

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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.