

# THE LAB<sup>®</sup>

## Chemicals & Coatings



### Technical and Material Safety Data Sheet

Version: 2026



## THE LAB UNIVERSAL UNDERCOAT

### THE LAB UNIVERSAL UNDERCOAT

Product Family: **Primers** (Solvent-Based Universal Alkyd Undercoat)

#### Typical System Guidance

##### Typical decorative coating system:

1. Assess the substrate and ensure it is clean, dry and sound.
2. Remove all loose paint, grease, oil, dust and surface contaminants.
3. Prime bare substrates with the appropriate The Lab primer where required.
4. Apply one full coat of **THE LAB UNIVERSAL UNDERCOAT**.
5. Allow the undercoat to dry thoroughly.
6. Lightly sand if required to achieve a smooth finish.
7. Apply one or two coats of the selected The Lab finishing coat.

Always follow the recommended coating specification for the substrate being coated.

#### Product Description

**THE LAB UNIVERSAL UNDERCOAT** is a premium solvent-based alkyd undercoat formulated to provide excellent adhesion, opacity and filling properties on a wide range of suitably prepared interior and exterior substrates. It creates a smooth, uniform foundation that promotes excellent adhesion and appearance of subsequent finishing coats.

The product is suitable for use on primed metal, timber, plaster, masonry and composition boarding, and is specifically designed for use beneath alkyd enamels, eggshell coatings and selected acrylic finishing systems. Its high solids content, excellent sanding characteristics and controlled sheen help minimise substrate imperfections while improving overall coating performance and durability.

### **Technical Data Summary**

| <b>Property</b>     | <b>Typical Value</b>                                    |
|---------------------|---------------------------------------------------------|
| Product Type        | Solvent-Based Universal Alkyd Undercoat                 |
| Binder Type         | Alkyd Resin                                             |
| Finish              | Slight Sheen                                            |
| Colour              | Standard Colours                                        |
| Specific Gravity    | 1.50 ± 0.05 kg/L                                        |
| Solids by Volume    | 58 ± 3%                                                 |
| Solids by Mass      | 76 ± 3%                                                 |
| Viscosity           | 85–90 KU                                                |
| Coverage            | Approximately 8 m <sup>2</sup> /L                       |
| Recommended Coats   | 1 coat (additional coats where required)                |
| Dry Film Thickness  | Approximately 72 µm per coat                            |
| Surface Dry         | Less than 2 hours @ 23°C                                |
| Hard Dry            | Less than 16 hours @ 23°C                               |
| Recoat Time         | After 16 hours                                          |
| Drying Mechanism    | Solvent evaporation followed by oxidative cross-linking |
| Application Methods | Brush, Roller or Spray                                  |
| Clean Up            | THE LAB BioSolve                                        |
| Packaging           | 1L, 5L, 20L                                             |
| Flash Point         | Refer to SDS                                            |

*Values are typical laboratory results and may vary under site conditions.*

### **Intended Uses**

**THE LAB UNIVERSAL UNDERCOAT** is recommended for:

- Interior and exterior timber
- Primed steel and metal surfaces
- Plaster
- Masonry
- Fibre cement and composition board
- Interior wood trim
- Doors and window frames
- General maintenance painting
- Preparation for enamel, eggshell and selected acrylic topcoats

## **Principal Characteristics**

- Excellent adhesion
- High opacity and hiding power
- Excellent filling properties
- Smooth sanding characteristics
- Promotes uniform topcoat appearance
- Suitable for interior and exterior use
- Excellent flow and levelling
- Compatible with a wide range of decorative finishing coats
- Good build with excellent coverage
- Easy application by brush, roller or spray

## **Limitations**

**THE LAB UNIVERSAL UNDERCOAT** is not recommended:

- For direct application to unprepared galvanised steel without the appropriate primer.
- For continuously immersed surfaces.
- Where substrate moisture exceeds acceptable limits.
- During rain, mist or high humidity.
- At ambient temperatures below 4°C or above 40°C.

## **Surface Preparation**

All substrates must be clean, dry and structurally sound before application.

Remove grease, oil, wax, dirt, loose paint, dust and all other contaminants that may impair adhesion.

Previously painted surfaces should be cleaned thoroughly, with loose or flaking coatings removed. Glossy surfaces should be sanded to provide a suitable mechanical key.

Bare timber should be smooth, dry and free of resin bleed. Metal substrates should be correctly prepared and primed before application.

Always ensure the correct The Lab primer has been specified for the substrate.

## **Application Guidelines**

Prior to application:

- Inspect packaging and ensure containers are unopened, undamaged and within shelf life.
- Stir thoroughly before use.
- Confirm substrate moisture and environmental conditions are suitable.

- Conduct a small test area where compatibility is uncertain.

Apply one uniform coat by brush, roller or spray.

Maintain the recommended spreading rate to achieve the specified dry film thickness.

Allow the coating to dry fully before sanding or applying subsequent finishing coats.

Do not apply:

- Below 4°C.
- Above 40°C.
- During rain or when rain is imminent.
- Onto damp substrates.
- When relative humidity exceeds approximately 85%.

## Storage

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

Protect from direct sunlight, ignition sources and excessive heat.

Do not allow containers to remain open after use.

Shelf life will depend on storage conditions but is maximised when containers remain unopened and are stored correctly.

# THE LAB<sup>®</sup>

SPECIALIZED COATING SOLUTIONS AND PAINT SYSTEMS

*"Where quality meets purpose"*

COMPLETE COATING  
SYSTEMS FOR  
EVERY SURFACE



ENGINEERED FOR PERFORMANCE.  
BUILT TO LAST.

|                                                                                                                                                                      |                                                                                                                                                                             |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                                           |                                                                                                                                                                                 |                                                                                                                                                                                     |                                                                                                                                                                                            |
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| <br><b>ROOF COATINGS</b><br>Superior protection against harsh weather conditions. | <br><b>WALL COATINGS</b><br>Beautiful, durable finishes for interior and exterior walls. | <br><b>FLOOR COATINGS</b><br>High performance floor systems for every environment. | <br><b>PRIMERS</b><br>The perfect foundation for lasting adhesion and performance. | <br><b>SEALERS</b><br>Protect and seal surfaces with advanced sealer technologies. | <br><b>TWIN PACKS &amp; EPOXIES</b><br>High build, chemical resistant systems for extreme performance. | <br><b>CEMENTITIOUS SYSTEMS</b><br>Engineered mortar and coatings for concrete protection. | <br><b>DEGREASERS &amp; SURFACE PREPARATION</b><br>Clean, prepare and ensure maximum adhesion. | <br><b>SPECIALIZED PROTECTIVE SYSTEMS</b><br>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](http://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 Hazchem: 3[Y] SAPMA: 2-H-E

In emergency contact: The Lab Chemicals & Coatings @ 0845071767

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

[- R10][Xn R65]

EC Classification: - Xn R10,65 S02,13,43A,62

HAZARDOUS AND/OR OTHER RELEVANT COMPONENTS

WHITE SPIRIT<0.1% BENZ (WS3) >10%

[CAS #: 64742-88-7] [E.C. #: 649-405-00-X]

EEC Labels: XN OEL 575mg OEL 100ppm STOEL 720mg STOEL 125ppm RL

Acrylic resin >25%

(CL/RL = Controlled/Recommended level 'S' = Skin annotation)

## SECTION 3. HAZARDS IDENTIFICATION

SAPMA Health Rating: 2-MODERATE - Temporary or minor injury possible even if treatment given

Inhalation: Irritating, narcotic. Can affect CNS.

Skin: HARMFUL BY CONTACT.

Eyes: Highly Irritating and risk of irreversible damage.

Ingestion: Harmful. May cause lung damage if swallowed.

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. In case of discomfort seek medical attention.

Skin: Use hand cleaner/soap & water. Remove contaminated clothing. If any discomfort get medical attention

Eyes: ACT FAST! Rinse immediately with plenty of water. Refer immediately to Doctor.

Ingestion: DO NOT INDUCE VOMITING. Get immediate medical attention.

## SECTION 5. FIRE FIGHTING MEASURES

Flammable with toxic fumes.

Containers can burst in a fire. Can form explosive vapour/air mixture. Static discharge hazard!

Foam. CO2. Dry powder. Fog to cool and control. Do NOT use water jets.

Cool containers in case of fire.

## SECTION 6. ACCIDENTAL RELEASE MEASURES - SEE ALSO SECTIONS 5, 8, 13

Contain & collect. Use an inert - NOT sawdust. Keep out of drains & sewers.

## SECTION 7. HANDLING AND STORAGE

Store separately from any reactive substances - oxidisers in particular.

No open flames. No smoking.

Keep containers cool. Avoid free fall of liquid - use earthing.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SAPMA Rating: 2-H-E PPE: Respirator and Eye protection

Inhalation: In case of insufficient ventilation, use suitable respiratory protection.

Skin: Avoid direct contact. Use barrier cream and impervious gloves.

Eyes: Use goggles. Avoid direct contact.

Ingestion: Observe the rules of hygiene. Wash before eating or drinking.

OEL Type: Mix- Mixture - See Section 2



## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical class: PAINT Description: Viscous liquid Smell: Pungent

Boil. pt (C): >35

FlashPoint (C): >23

## SECTION 10. STABILITY AND REACTIVITY

Stable under normal conditions

Could generate static - USE EARTHING

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

Contact your nearest municipal offices.

## SECTION 14. TRANSPORT INFORMATION

UN no: 1263 Packing group: III IMO Class: 3.3

Hazchem: 3[Y]



## SECTION 15. REGULATORY INFORMATION

EC no. : N/A Contains: WHITE SPIRIT<0.1% BENZ (WS3)

EC Classification: - Xn R10,65 S02,13,43A,62

R10 - Flammable

R65 - Harmful: May cause lung damage if swallowed.

S2 - Keep out of reach of children. (Retail sales items)

S13 - Keep away from food, drink and animal feeding stuffs

S43A - In case of fire, use water fog, foam or powder - Do not use water jets!

S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.



**SECTION 16. OTHER INFORMATION**

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.  
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  
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