

# THE LAB<sup>®</sup>

## Chemicals & Coatings



### Technical and Material Safety Data Sheet

Version: 2026



## THE LAB EPOXY ACRYLIC

### **THE LAB EPOXY ACRYLIC (Previously known as Panelcoat)**

Product Family: **Floor Systems** (Solvent-Based Epoxy Acrylic Protective Floor Coating)

#### **Typical System Guidance**

Typical protective coating system:

- 1 Prepare and clean substrate thoroughly
- 2 Apply **THE LAB EPOXY PENETRATING PRIMER** (Concrete Surfaces)  
or **THE LAB EPOXY ACRYLIC** (Metal Surfaces) depending on substrate type
- 3 Apply first coat of **THE LAB EPOXY ACRYLIC**
- 4 Allow sufficient drying time between coats
- 5 Apply second coat to achieve full protection and coverage

Routine inspection and maintenance is recommended to maintain long-term coating performance.

#### **Product Description**

**THE LAB EPOXY ACRYLIC** is a single-pack solvent-based epoxy acrylic coating designed to provide a durable, abrasion-resistant protective finish for industrial and commercial surfaces. The coating combines the adhesion and toughness of epoxy technology with the weathering resistance and ease of application associated with acrylic resin systems.

The product forms a smooth, hard wearing coating film with excellent adhesion to correctly prepared substrates. It provides good resistance to abrasion, weather exposure and mechanical wear, making it suitable for interior and exterior applications where a durable protective coating is required.

**THE LAB EPOXY ACRYLIC** is commonly used as a finishing coat on concrete floors, steel structures, walls and other construction substrates that require a strong, protective and decorative coating system. The coating offers good gloss and colour retention and can withstand demanding environmental conditions when applied over suitable primers.

This product was previously marketed as **THE LAB PANELCOAT** for export and retains the same proven formulation and performance characteristics.

### **Technical Data Summary**

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Product Type                  | Epoxy Acrylic Solvent-Based Coating                |
| Finish                        | Satin                                              |
| Colour                        | White / Light and Medium Grey                      |
| Binder Type                   | Epoxy Acrylic Resin                                |
| Viscosity                     | 105 – 110 KU                                       |
| Specific Gravity              | 0.05 kg/L                                          |
| Non-Volatile Content (Mass)   | 63 %                                               |
| Non-Volatile Content (Volume) | 36 %                                               |
| Theoretical Coverage          | +/- 8-10 m <sup>2</sup> /L                         |
| Flash Point                   | Flammable                                          |
| Drying Mechanism              | Solvent evaporation                                |
| Touch Dry                     | +/- 40 minutes at 23°C                             |
| Hard Dry                      | +/- 6 hours at 23°C                                |
| Recoat Time                   | Over Night                                         |
| Recommended WFT               | +/- 65 microns                                     |
| Recommended DFT               | +/- 35 microns                                     |
| Surface Temperature Limits    | 10 – 13 °C                                         |
| Relative Humidity Limits      | < 50°C                                             |
| Cleaning Solvent              | THE LAB BIO SOLVE or suitable Solvent cleaner      |
| 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**

**THE LAB EPOXY ACRYLIC** is designed for use as a durable finishing coating for a variety of construction and industrial surfaces.

Typical applications include:

- Concrete and cementitious floors
- Industrial and warehouse floors
- Metal surfaces and steel structures
- Interior and exterior walls

- Protective coatings for machinery bases
- Commercial and light industrial facilities
- Areas requiring abrasion resistant coatings

The coating is particularly suitable where a durable solvent-based coating is required that can withstand exposure to weathering, mechanical wear and industrial environments. Not recommended for permanently submerged surfaces or areas subject to continuous water exposure.

### **Principal Characteristics**

- Single pack epoxy acrylic coating
- Excellent adhesion to prepared substrates
- Durable protective floor coating
- Good abrasion resistance
- Satin decorative finish
- Suitable for interior and exterior applications
- Good weather resistance
- Good colour and gloss retention
- Easy application by brush, roller or spray

### **Surface Preparation**

Correct surface preparation is essential for optimum coating performance.

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

Concrete floors should be fully cured and free from laitance and contamination. Oil contaminated surfaces must be cleaned using a suitable degreasing agent.

Steel surfaces should be mechanically cleaned to remove rust, scale and contamination before applying a suitable anti-corrosion primer.

Previously painted surfaces in good condition should be cleaned and lightly sanded to ensure adequate adhesion.

Porous surfaces may require sealing with a suitable primer before applying the epoxy acrylic coating.

### **Application Guidelines**

**THE LAB EPOXY ACRYLIC** 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 in a cool, dry and well-ventilated area away from direct sunlight, sparks and ignition sources.

Recommended storage temperature: 10°C – 30°C.

Typical shelf life is approximately **12 months** when stored in original unopened containers.

Containers must remain tightly closed when not in use.

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*"Where quality meets purpose"*

COMPLETE COATING SYSTEMS FOR EVERY SURFACE

ENGINEERED FOR PERFORMANCE. BUILT TO LAST.

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SOLUTION DRIVEN SCIENCE OF PAINT  
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QUALITY FORMULATIONS  
TRUSTED BY PROFESSIONALS  
ENVIRONMENTALLY CONSCIOUS  
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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. |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

# 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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