

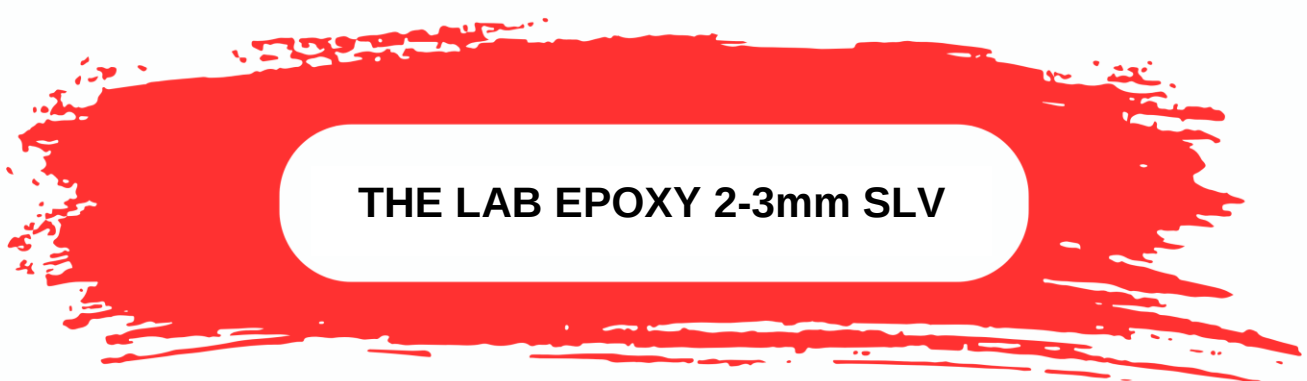
THE LAB[®]

Chemicals & Coatings



Technical and Material Safety Data Sheet

Version: 2026



THE LAB EPOXY 2-3mm SLV

THE LAB EPOXY 2-3MM SLV

Product Family: Twin Packs and Epoxies

Typical System Guidance

System selection should be based on substrate condition and service requirements.

A typical flooring system may consist of:

1. THE LAB EPOXY PENETRATING PRIMER
2. THE LAB EPOXY 2–3 mm SLV

For heavily worn or chemically exposed environments, additional system layers may be specified.

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

Product Description

THE LAB Epoxy 2–3 mm SLV is a heavy-duty, self-levelling epoxy flooring system designed to produce a seamless, durable and chemically resistant floor finish. The coating forms a smooth satin gloss surface that provides excellent mechanical strength, abrasion resistance and resistance to many industrial chemicals. The product is specifically formulated for application on concrete floors where a hygienic, easy-to-clean and long-lasting finish is required. Once cured, the coating forms a dense impermeable layer capable of withstanding heavy traffic, wash downs and exposure to oils, fuels and chemical splashes. The system is suitable for industrial facilities where durability, chemical resistance and long service life are critical. The coating is suitable for food processing, pharmaceutical and hygienic environments where seamless flooring systems are required.

Technical Data Summary

Finish	Satin Gloss
Colour	Pastel Colours
Consistency	Medium Viscosity Liquid
Volume Solids	100% Solids system
Number of Components	2
Mixing Ratio	Full Kit Mix
Pot Life	+/- 30–40 minutes
Dry to Recoat	Over Night
Full Cure	7 days
Adhesion to Concrete	>3 MPa
Compressive Strength	55–60 MPa
Tensile Strength	20–25 MPa
Flexural Strength	30–35 MPa
Hardness	Shore D 80–85
Wet Film Thickness	650–1000 microns
Application Temperature	16°C – 35°C
Surface Temperature Limits	10 – 13 °C
Relative Humidity Limits	< 50°C
Max Service Temperature	45°C
Dew Point	Substrate minimum 2°C above dew point
Shelf Life	12 months

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 2–3 mm SLV is designed as a high-build self-levelling flooring system for interior industrial environments requiring exceptional durability and chemical resistance. Typical applications include industrial production areas, food processing facilities, hospitals, pharmaceutical facilities, schools, correctional facilities, workshops, warehouses, ablution blocks and walkways. The coating provides a seamless and hygienic surface suitable for areas subject to regular washing, heavy foot traffic or exposure to chemicals.

Typical applications include industrial production areas, food processing facilities, hospitals, pharmaceutical facilities, cosmetic manufacturing facilities, schools, correctional facilities, workshops, warehouses, ablution blocks and walkways.

Principal Characteristics

- Self-levelling high build epoxy flooring system
- Excellent abrasion resistance and mechanical strength
- Resistant to petroleum products, fuels and many solvents
- Resistant to inorganic acids up to approximately 30% concentration

- Excellent resistance to water and salt solutions
- Seamless and hygienic floor finish
- High compressive and tensile strength
- Long service life in demanding industrial environments

Surface Preparation

All surfaces must be structurally sound, clean and free of oil, grease, dust, laitance and contaminants that may interfere with adhesion. Concrete substrates must be mechanically prepared by grinding, abrasive blasting or similar methods to produce an open textured surface with exposed aggregate. Moisture content of the substrate should be below 5% and tensile strength should exceed 1.5 MPa. All dust and debris must be removed using industrial vacuum equipment. Cracks, holes or surface defects should be repaired using appropriate epoxy repair materials prior to coating. Concrete substrates must be mechanically prepared by grinding, abrasive blasting or similar methods to produce an open textured surface with exposed aggregate.

Application Guidelines

The contents of the supplied kit must be mixed completely and must not be divided. The activator component is added to the base and mixed thoroughly using a mechanical mixer for several minutes to ensure complete blending. The mixed material is then transferred to a secondary container and mixed again to ensure full cross-linking of components. The coating is applied using a notch trowel, mohair roller or spike roller depending on system thickness. Adequate ventilation must be provided when working in enclosed areas.

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.

Clean equipment immediately after use with suitable epoxy cleaning solvent before the material cures.

Storage

Store in original sealed containers in a dry environment between 5°C and 25°C. Protect from direct sunlight, moisture and extreme temperatures. When stored correctly the product has a typical shelf life of approximately 12 months from date of manufacture.

THE LAB[®]

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COMPLETE COATING SYSTEMS FOR EVERY SURFACE

ENGINEERED FOR PERFORMANCE. BUILT TO LAST.

 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. : N/A

SAPMA: 2-H-C

In emergency contact: The Lab Chemicals & Coatings @ 0845071767

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

[Xi R43]

EC Classification: Xi R43 S02,13,24,37,46

HAZARDOUS AND/OR OTHER RELEVANT COMPONENTS

LIQUID EPOXY RESIN M.Wt <700 >1%

[CAS #:] [E.C. #:]

EEC Labels: Xi

(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. Potential sensitizer.

Eyes: Irritating.

Ingestion: Irritating.

No carcinogenic, mutagenic or genetic effects established

May have short term environmental effects. Contain, monitor & remove.

Skin Sensitizer

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: Rinse immediately with plenty of water. Seek medical advice.

Ingestion: Wash mouth with plenty of water. Do NOT induce vomiting. Seek medical advice.

SECTION 5. FIRE FIGHTING MEASURES

Combustible with toxic fumes.

Solvent Free. Fire Rating - 4 Minimal

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SAPMA Rating: 2-H-C PPE: 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, drinking or smoking.
Skin Sensitizer



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical class: Non-hazardous material Description: Viscous liquid Smell: Pungent
FlashPoint (C): >100

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

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: Xi R43 S02,13,24,37,46
R43 - May cause sensitisation by skin contact
S2 - Keep out of reach of children. (Retail sales items)
S13 - Keep away from food, drink and animal feeding stuffs
S24 - Avoid contact with the skin
S37 - Wear suitable gloves
S46 - If swallowed seek medical advice immediately and show this container or label



SECTION 16. OTHER INFORMATION

THIS SUBSTANCE IS A POTENTIAL SENSITISER - ENSURE PRECAUTIONS ARE TAKEN.
IN CASE OF ANY DISCOMFORT ALWAYS SEEK MEDICAL ADVICE.

ACTIVATOR



SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

CAS no. : N/A

EC no: N/A

UN No: N/A

SAPMA: 2-H-C

In emergency contact: The Lab Chemicals & Coatings @ 0845071767

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

[Xi R43]

EC Classification: Xi R43 S02,13,24,37,46

HAZARDOUS AND/OR OTHER RELEVANT COMPONENTS

AMINOPOLYAMIDE. >1%

[CAS #:] [E.C. #:]

EEC Labels: XN MIX

(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: Highly irritating.

Skin: HARMFUL BY CONTACT. Potential sensitizer.

Eyes: Irritating.

Ingestion: Irritating.

No carcinogenic, mutagenic or genetic effects established

Medium to long term environmental effects. Contain, collect & remove.

Skin Sensitizer

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: Rinse immediately with plenty of water. Seek medical advice.

Ingestion: Wash mouth with plenty of water. Do NOT induce vomiting. Seek medical advice.

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 and collect spilled material using inert absorbent material. Prevent entry into drains, waterways and soil. Dispose of waste through an approved waste disposal contractor in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Store separately from any reactive substances - oxidisers in particular.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SAPMA Rating: 2-H-C PPE: Eye protection

Inhalation: Avoid breathing vapours. Use 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, drinking or smoking.

Skin Sensitizer



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

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Medium to long term environmental effects. Contain, collect & remove.

SECTION 13. DISPOSAL INFORMATION

Use reputable waste disposal contractors. Exercise caution in disposal of used containers.

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Not classified as dangerous for transport



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EC no. : N/A

EC Classification: Xi R43 S02,13,24,37,46

R43 - May cause sensitisation by skin contact

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

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S24 - Avoid contact with the skin

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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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omissions or the consequences thereof.