

THE LAB[®]

Chemicals & Coatings



Technical and Material Safety Data Sheet

Version: 2026



THE LAB EPOXY MORTAR KIT

THE LAB EPOXY MORTAR KIT

Product Family: **Twin Packs and Epoxies** (Epoxy Mortar Repair and Coving System)

Typical System Guidance

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

A typical repair or coving system may consist of:

1. Surface preparation and cleaning
2. **THE LAB EPOXY PENETRATING PRIMER**
3. **THE LAB EPOXY MORTAR KIT**
4. Optional **THE LAB EPOXYCOAT 421** or **THE LAB POLYGUARD** finishing system where enhanced chemical resistance, hygiene or decorative appearance is required

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

Product Description

THE LAB EPOXY MORTAR KIT is a three-component epoxy mortar system designed primarily for the construction of hygienic floor-to-wall and wall-to-wall coving systems, while also providing a durable solution for concrete repairs, patching and floor edge restoration. The system combines epoxy resin technology with specially graded aggregates to produce a seamless, chemically resistant and abrasion-resistant mortar suitable for sterile and industrial environments.

Technical Data Summary

Property	Typical Value
Product Type	Epoxy Mortar Repair and Coving System
Components	Resin + Activator + Aggregate
Finish	Semi-smooth
Colour	Grey
Recommended substrates	Concrete & Masonry
Mixed Density	1.76
Mixing Ratio	2 Parts Base : 1 Part Activator : Aggregate
Pot Life	Approx. 40 minutes at 25°C
Application Method	Trowel
Pack Size	23 kg Kit
Coverage	As required depending on repair dimensions
Foot Traffic	Approx. 24 hours
Full Cure	Approx. 7 days
Chemical Resistance	Excellent
Abrasion Resistance	Excellent
Application Temperature	10°C – 35°C
Shelf Life	12 months

These values are typical laboratory results and serve as a guide only. Practical coverage will vary depending on repair dimensions, substrate condition and application method.

Intended Uses

THE LAB EPOXY MORTAR KIT is designed for the repair of damaged concrete and the construction of hygienic coving systems between floor and wall junctions. The product is suitable for filling voids, repairing spalled concrete, forming perimeter coving, repairing floor edges, expansion joint edge repairs, kerb & bund repairs and restoring damaged industrial flooring.

Typical applications include:

- Kerb and Bund repairs
- Food processing facilities
- Hospitals and healthcare facilities
- Pharmaceutical facilities
- Laboratories
- Blood banks
- Sterile production environments
- Factories and warehouses
- Workshops and industrial production areas
- Floor-to-wall and wall-to-wall hygienic coving systems

Principal Characteristics

- Three-component epoxy mortar system
- Suitable for hygienic coving construction
- Excellent abrasion resistance
- Excellent chemical resistance
- High mechanical strength
- Excellent adhesion to concrete substrates
- Seamless and dust-free finish
- Suitable for sterile environments
- Fast return to service
- Long service life

Surface Preparation

Concrete surfaces must be structurally sound, clean, dry and free from laitance, oil, grease, dust and contaminants that may impair adhesion. Surface preparation should be carried out using grinding, wire brushing, abrasive blasting or other suitable mechanical methods.

All loose and deteriorated concrete must be removed and the substrate roughened to provide a suitable mechanical key. Dust and debris should be removed by vacuum cleaning prior to application.

Where specified, **THE LAB EPOXY PENETRATING PRIMER** should be applied to the prepared substrate prior to installing the mortar system.

Concrete surfaces must be structurally sound, clean, dry and free from laitance, oil, grease, dust and contaminants. Moisture content should not exceed 5% by weight.

Application Guidelines

THE LAB EPOXY MORTAR KIT is supplied as a three-component system consisting of epoxy resin, activator and graded aggregate.

The resin and activator must first be thoroughly mixed until a homogeneous mixture is achieved. The aggregate component should then be added gradually while mixing using a slow-speed mechanical mixer until a uniform mortar consistency is obtained.

Repair Application Procedure

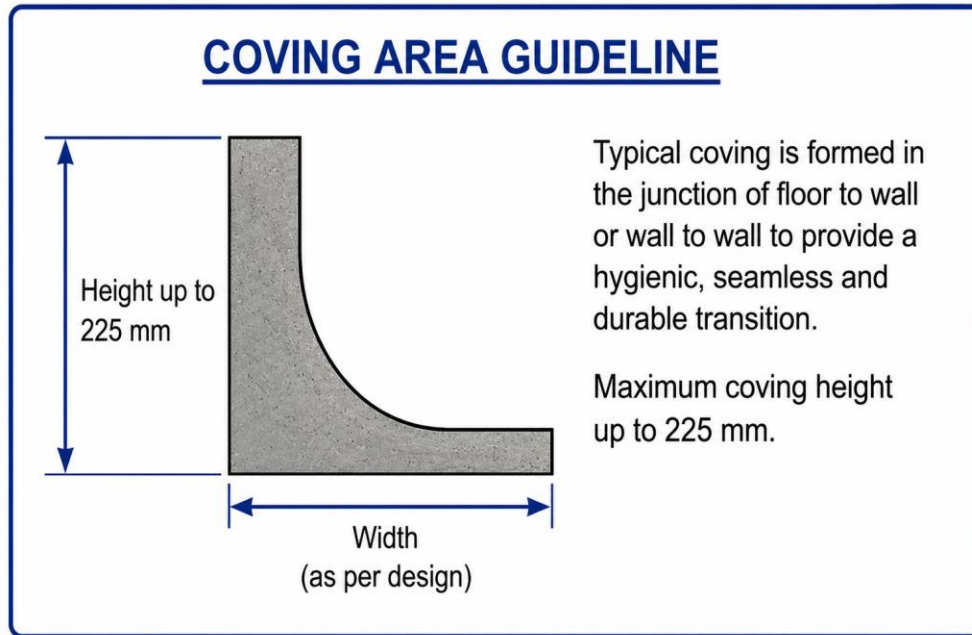
- 1 Surface Preparation: Prepare and clean all surfaces.
- 2 Prime Coat: Apply **THE LAB EPOXY PENETRATING PRIMER** to prepared surfaces where required.
- 3 Mixing: Mix the complete kit in accordance with the specified ratio.
- 4 Installation: Apply the mortar using a steel trowel or suitable coving tool and compact firmly to achieve the desired profile and finish.

Coving Installation Procedure

After priming, apply **THE LAB EPOXY MORTAR KIT** while the primer remains tacky.

The mortar should be compacted firmly into the floor-to-wall junction and shaped using a suitable coving trowel, roller or profiling tool to achieve the required radius and profile.

Where specified, coving may be formed to heights of up to approximately 225 mm.



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 all equipment immediately after use using suitable epoxy thinner or approved cleaning solvent before the material cures.

Storage

Store in original sealed containers in a cool, dry and well-ventilated environment. Protect from moisture, direct sunlight and extreme temperatures.

Recommended storage temperature is between 5°C and 25°C. When stored correctly the product has a typical shelf life of approximately 12 months.

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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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QUALITY FORMULATION
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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

BASE



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.

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.

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
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

Make use of local municipal sites.

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

Name : Epoxy MortarActivator

Date Issued: 23/04/07

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 contamination of drains, waterways and soil.

Dispose of waste in accordance with local regulations using an approved waste disposal contractor.

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

SECTION 12. ECOLOGICAL INFORMATION

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

SECTION 13. DISPOSAL INFORMATION

Use only reputable waste disposal companies.

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

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SECTION 16. OTHER INFORMATION

THIS SUBSTANCE IS A POTENTIAL SENSITISER - ENSURE PRECAUTIONS ARE TAKEN. 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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