THE LAB®

Chemicals & Coatings

Technical and Material Safety Data Sheet Version: 2026

THE LAB EPOXY STONE CARPET

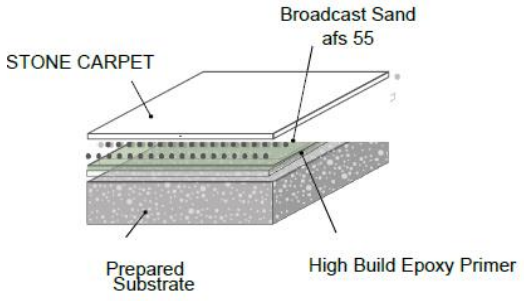
THE LAB EPOXY STONE CARPET SYSTEM
Product Family: Twin Packs & Epoxies (Decorative Epoxy Stone Carpet Flooring System)

Typical System Guidance

Typical Decorative Stone Carpet Flooring System

1. Inspect the concrete substrate to ensure it is structurally sound, dry and free from contamination.
2. Mechanically prepare the substrate by grinding or abrasive blasting to remove laitance and provide a sound profile.
3. Apply The Lab High Build Epoxy Primer**.**
4. Broadcast kiln-dried silica aggregate where specified.
5. Mix and apply **THE LAB STONE CARPET SYSTEM** using the specified resin and decorative stone aggregate blend.
6. Compact and finish to the specified thickness of 2–3 mm.
7. Allow the floor to cure before opening to foot traffic or service.

Detailed installation should be carried out by trained applicators in accordance with The Lab installation procedures.



Product Description

THE LAB STONE CARPET SYSTEM is a premium decorative flooring system comprising specially selected natural stone aggregates bonded with a high-performance, solvent-free clear epoxy resin. The seamless system produces a durable, attractive and hard-wearing natural stone finish suitable for a wide range of commercial, retail and architectural environments.

The cured system combines excellent abrasion resistance, high compressive strength and outstanding bond performance with a decorative appearance. Its low-VOC, solvent-free formulation provides an environmentally responsible flooring solution while maintaining excellent long-term durability under pedestrian traffic.

Technical Data Summary

Property	Typical Value
Product Type	Decorative Epoxy Stone Carpet Flooring System
Finish	Natural Decorative Stone
System Thickness	2–3 mm
Kit Size	28 kg (covers approximately 3–4 m²)
Resin Components	Base: 1.360 kg • Activator: 0.640 kg
Coverage	+/- 3–4 m² per kit
Slip Resistance	Tested in accordance with BS 7976-2 (system dependent)
Abrasion Classification	BS8204 Part 2 Class AR2
Compressive Strength	>30 N/mm²
Flexural Strength	10 N/mm²
Bond Strength	Greater than concrete cohesive strength (>1.5 MPa)
Thermal Resistance	Up to 50°C
VOC	Low (Solvent Free)
Light Foot Traffic	24 hours @20°C
Full Traffic	48 hours @20°C
Full Chemical Cure	7 days @20°C
Application Method	Trowel Applied
Available Colours	White, Amber, Grey and Black Natural Aggregate

The applied colours may differ from the examples shown.

Performance values are typical laboratory results obtained at approximately 20°C and 50% relative humidity. Practical coverage will vary depending on surface profile, porosity and application method.

Cure Table

Cure Stage	10°C	20°C	30°C
Light Traffic	36 h	24 h	16 h
Full Traffic	72 h	48 h	36 h
Full Chemical Cure	12 d	7 d	6 d

Intended Uses

THE LAB STONE CARPET SYSTEM is recommended for:

- Car showrooms
- Retail stores
- Reception areas
- Commercial buildings
- Office developments
- Shopping centres
- Residential feature floors
- Hotels
- Restaurants
- Interior architectural flooring
- Display areas
- Decorative commercial flooring

The cured flooring system is non-hazardous, seamless and designed for long service life, reducing maintenance and repair requirements.

Principal Characteristics

- Attractive natural stone finish
- Solvent-free formulation
- Low VOC content
- Environmentally responsible system
- Excellent abrasion resistance
- Excellent bond strength
- Excellent compressive strength
- Medium-duty commercial flooring classification
- Suitable for regular pedestrian traffic
- Excellent durability
- Seamless decorative finish
- Available in multiple aggregate colour blends

Performance Characteristics

Property	Typical Performance
Compressive Strength	>30 N/mm²
Flexural Strength	10 N/mm²
Bond Strength	>1.5 MPa
Thermal Resistance	Up to 50°C
Slip Resistance	System dependent (BS 7976-2)
Abrasion Resistance	BS8204 Class AR2

Limitations

THE LAB STONE CARPET SYSTEM is not recommended**:**

- On substrates affected by rising damp or hydrostatic pressure.
- On concrete with a compressive strength below 25 N/mm²**.**
- On contaminated, unsound or poorly prepared substrates.
- Without the specified epoxy primer system.
- For exterior UV-exposed applications unless protected with an approved UV-stable topcoat.
- Where substrate moisture exceeds the specified limits.

The standard epoxy binder is not UV stable and may discolour with prolonged ultraviolet exposure unless otherwise specified.

Installation should only be undertaken by trained applicators following The Lab installation procedures.

Surface Preparation

All concrete substrates must be:

- Structurally sound.
- Free from laitance.
- Clean, dry and uncontaminated.
- Minimum compressive strength of 25 N/mm².
- Maximum 75% RH in accordance with BS8204.
- Free from rising damp and hydrostatic pressure.

Mechanical preparation may include:

- Diamond grinding
- Abrasive blasting
- Bush hammering
- Mechanical scarifying
- Surface degreasing where required

A smooth, level substrate is essential to achieve the desired decorative appearance.

Application Guidelines

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
- Store materials between 10°C and 30°C.
- Mix complete pre-measured kits only.
- Mechanically mix using a low-speed mixer.
- 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 Apply immediately after mixing.

Apply the specified epoxy primer and allow the required curing period before installing the Stone Carpet system.

Protect the completed installation from moisture during the first 7 days of curing.

Installation should only be undertaken by trained and approved applicator

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 all components in tightly sealed original containers.

Recommended storage temperature:

- 10°C–30°C
- Ideal storage temperature approximately 20°C

Protect from moisture, excessive heat and direct sunlight.

Observe the individual shelf life of each system component. Most resin components have a shelf life of approximately 6–12 months under correct storage conditions.

Maintenance

Clean regularly using a rotary scrubber drier together with a mildly alkaline detergent.

Do not use aggressive cleaning chemicals unless approved by The Lab Technical Department.

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

Name :THE LAB Stone Carpet Epoxy
Coating (Base) CAS no. : n/a EC no. : n/a

UN No. : 1866 Hazchem : 3[Y] SAPMA : 2-H-E

In emergency contact The Lab

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

[- R10][Xi R43] EC Classification : - Xi R10,43 S02,13,24,37,43A,46

HAZARDOUS AND/OR OTHER RELEVANT
COMPONENTS XYLENE >12.5%

[CAS #: 1330-20-7] [E.C. #: 601-022-00-9]

EEC Labels: XN OEL 435mg OEL 100ppm STOEL 650.mg STOEL 150.ppm RL+ S
LIQUID EPOXY RESIN M.Wt <700 >1%

[CAS #: NQ] [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
sensitiser. Eyes : Irritating.

Ingestion : Irritating and nauseating.

No carcinogenic, mutagenic or genetic effects established

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

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 if symptoms persist.

Ingestion : Wash mouth with plenty of water. Do NOT induce vomitting. seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Flammable with toxic fumes.
Containers liable to burst in a
fire.

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

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.

Store containers with due care in case of fire.

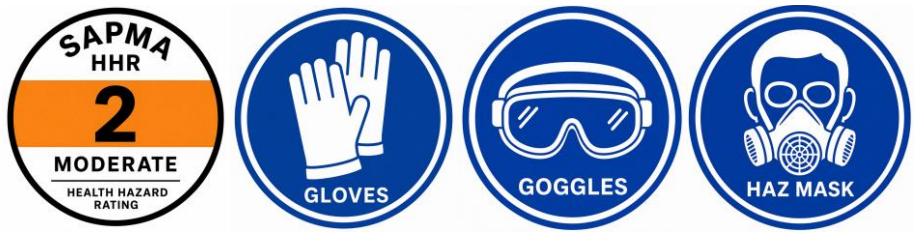
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 face shield & goggles or full face respirator/hood. Avoid direct contact. Ingestion : Observe the rules fo hygiene. Wash before eating, drinking or smoking. OEL Type : Mix- Mixture - See Section 2 Skin annotation

Skin Sensitiser



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical class : eg : Paint Product Description : Viscous liquid Smell : Pungent Boil. pt : >35 FlashPoint : >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

Hazardous. Use reputable waste disposal contractors. Destroy used containers.

SECTION 14. TRANSPORT INFORMATION

UN no : 1866 Packing group : III IMO Class : 3.3 Hazchem 3[Y]

SECTION 15. REGULATORY INFORMATION

EC no. : n/a Contains : XYLENE

EC Classification : - Xi R10,43 S02,13,24,37,43A,46 R10 - Flammable

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

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

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.

This MSDS conforms with 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.