

# THE LAB<sup>®</sup>

## Chemicals & Coatings



## Technical and Material Safety Data Sheet

### Version: 2026



# THE LAB FLOORTECH

## THE LAB FLOORTECH

Product Family: Floor Systems

### Typical System Guidance

Typical floor coating system:

1. **BIO-ACID WASH** – cleaning and degreasing of floor surfaces
2. **BIO-EPOXY PENETRATING PRIMER** – penetrating primer for porous substrates
3. **FLOORTECH** – two coat floor coating system

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

### Product Description

**THE LAB FLOORTECH** is a high-performance water-based acrylic floor coating designed for medium to high traffic floor surfaces requiring durability, abrasion resistance and ease of application.

The coating forms a tough protective film that provides excellent adhesion to properly prepared cement and masonry substrates. Once cured, the coating delivers good resistance to impact, abrasion and general wear associated with commercial and residential environments.

**FLOORTECH** has extremely low VOC emissions and does not produce strong fumes during or after application, making it suitable for indoor environments where low odour coatings are required. The coating is environmentally friendly and water-based, allowing tools and equipment to be cleaned easily with water.

The product produces a low sheen decorative finish and offers excellent adhesion to most primed substrates. The coating also demonstrates fire-retardant characteristics and contributes to reduced flame spread.

**FLOORTECH** is suitable for interior and exterior concrete floors including residential garages, workshops, walkways and commercial floor areas where durable decorative protection is required.

### **Technical Data Summary**

|                            |                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------|
| Product Type               | Water-based acrylic floor coating                                                                      |
| Finish                     | Low sheen                                                                                              |
| Colour Range               | Modern Brown / Terracotta / Black / Green / White / Red / Yellow                                       |
| Application Method         | Brush or Roller                                                                                        |
| Recommended Coats          | Minimum two coats                                                                                      |
| Coverage                   | +/- 8–10 m <sup>2</sup> /L per coat depending on substrate condition, porosity and application method. |
| Touch Dry                  | +/- 60 minutes at 20°C                                                                                 |
| Recoat Time                | +/- 2 hours                                                                                            |
| Full Cure                  | +/- 8 days                                                                                             |
| Specific Gravity           | +/- 1.25 kg/L                                                                                          |
| Viscosity                  | +/- 90-95 KU                                                                                           |
| Solid Content by Mass      | Minimum 63%                                                                                            |
| Solid Content by Volume    | Minimum 48%                                                                                            |
| Recommended WFT            | +/- 120 microns                                                                                        |
| Recommended DFT            | +/- 85 microns                                                                                         |
| Surface Temperature Limits | 10 – 13 °C                                                                                             |
| Relative Humidity Limits   | < 50°C                                                                                                 |
| Clean Up                   | Water                                                                                                  |
| Flammability               | Non-flammable                                                                                          |
| VOC                        | Low VOC typical of water-based acrylic coatings                                                        |
| 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**

**FLOORTECH** is recommended for:

- Concrete floors
- Cement screed floors
- Residential garage floors
- Workshops and utility areas
- Walkways and verandas

- Commercial and light industrial floors
- Areas requiring abrasion resistant coatings

Not recommended for permanently submerged surfaces or areas subject to continuous water exposure.

### **Principal Characteristics**

- Adhesion promoted acrylic floor coating
- Excellent adhesion to primed substrates
- Good impact and abrasion resistance
- environmentally friendly water-based formulation
- Low VOC content
- Low flame spread
- Easy application with brush or roller
- Water clean-up

### **Surface Preparation**

All substrates must be clean, sound, dry and free from dust, oil, grease or contamination.

Surfaces should be cleaned using **THE LAB BIO-WASH** or **HYDROCHLORIC ACID** to remove loose material and contaminants.

Concrete and cement floors must be allowed to cure fully before coating application.

Previously painted surfaces should be inspected and any loose or poorly adhering coatings removed.

Smooth concrete surfaces may require mechanical abrasion or acid etching to ensure proper adhesion.

All porous or friable surfaces should be primed using **THE LAB EPOXY PENETRATING PRIMER** before applying the floor coating.

Ensure surfaces are completely dry before coating application.

### **Application Guidelines**

**FLOORTECH** may be applied by brush or roller.

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 environment.

Protect from:

- Direct sunlight
- Extreme temperatures
- Freezing conditions

Keep containers tightly sealed 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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The perfect foundation for lasting adhesion and performance.

**SEALERS**  
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High build, chemical resistant systems for extreme performance.

**CEMENTITIOUS SYSTEMS**  
Engineered mortar and coatings for concrete protection.

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Clean, prepare and ensure maximum adhesion.

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Specialised solutions for the toughest protection needs.

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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.

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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 SAPMA: 4-H-C

In emergency contact: The Lab Chemicals & Coatings @ 0845071767

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

EC Classification: Not classified as hazardous

No significant quantity of classified hazardous substances present.

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

## SECTION 3. HAZARDS IDENTIFICATION

SAPMA Health Rating: 4-MINIMAL - No great risk to health

Inhalation: Avoid exposure to vapours, fumes and mists.

Skin: No hazard expected if used in moderation.

Eyes: No direct hazard is expected but possible contact with any chemical must always be avoided.

Ingestion: Irritating and nauseating.

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.

Skin: Always wash after handling chemical substances.

Eyes: In case of any contact and discomfort rinse well with water and seek medical advice.

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

## 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 & collect. Keep out of drains and sewers

## SECTION 7. HANDLING AND STORAGE

Store separately from any reactive substances - oxidisers in particular.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SAPMA Rating: 4-H-C PPE: Eye protection

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

Skin: Use only as directed.

Eyes: Avoid direct contact. Never touch eyes with dirty hands or gloves.

Ingestion: Observe the rules for hygiene. Wash before eating, drinking or smoking.



## 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

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: Not classified as hazardous  
S2 - Keep out of reach of children. (Retail sales items)

## SECTION 16. OTHER INFORMATION

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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