

THE LAB[®]

Chemicals & Coatings



Technical and Material Safety Data Sheet

Version: 2026



THE LAB TILE SEAL

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Product Family: **Sealers** (Tile and Masonry Penetrating Sealer)

Typical System Guidance

Typical masonry protection system:

- 1 Clean surface using **THE LAB BIO-WASH**
- 2 Allow substrate to dry completely
- 3 Apply **THE LAB TILE SEAL** evenly across the surface. Apply 2 – 4 Coats

Additional coats may be applied depending on substrate porosity and protection requirements. Routine inspection and maintenance is recommended to maintain long-term coating performance.

Product Description

THE LAB TILE SEAL is a clear penetrating sealer designed to protect porous masonry and tile surfaces from water penetration, staining and environmental deterioration. The product penetrates into the surface structure of the substrate to form an invisible protective barrier that reduces moisture absorption while maintaining the natural appearance of the surface.

The sealer enhances the durability of masonry and tiled surfaces by reducing the effects of water ingress, dirt penetration and weathering. By sealing the surface pores, **TILE SEAL** helps extend the life of the substrate and improves resistance to staining and surface degradation.

The product is particularly suitable for contractors requiring a clear protective sealer for tiles, paving and masonry surfaces where protection is required without altering the natural colour or appearance of the substrate.

Technical Data Summary

Product Type	Complex mixture of silane and siloxane
Colour	Clear
Finish	Natural / Invisible
Binder Type	Complex mixture of silane and siloxane
Volume Solids	+/- 18 %
Specific Gravity	+/- 1.00 kg/L
Application Method	Brush / Roller / Spray
Touch Dry	+/- 60 minutes
Recoat Time	+/- 2 hours
Coverage	+/- 8 – 12 m ² /L
Viscosity	+/- 15 KU
Penetration Depth	+/- 3-7 cm
Surface Temperature Limits	10 – 13 °C
Relative Humidity Limits	< 50°C
Clean Up	Mineral Turpentine
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

TILE SEAL is intended for sealing and protecting porous surfaces including:

- Concrete tiles
- Terracotta tiles
- Paving blocks
- Concrete paving
- Brick surfaces
- Natural stone surfaces
- Cement-based surfaces

The sealer may be used on both interior and exterior surfaces where protection against moisture and staining is required.

Principal Characteristics

- Penetrating protective sealer
- Reduces water absorption in porous substrates
- Protects surfaces from staining and weathering
- Maintains natural appearance of the substrate
- Improves durability of masonry and tile surfaces
- Easy application by brush, roller or spray

- Will darken substrate

Surface Preparation

All surfaces must be clean, dry and free from dust, grease, oil and contaminants.

Remove dirt, dust and surface contamination using **THE LAB BIO-WASH** where necessary. Ensure that all cleaning residues are removed and the surface is completely dry before application.

Loose or deteriorated material must be removed before applying the sealer.

Application Guidelines

TILE SEAL 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 environment.

Protect from freezing and extreme temperatures.

Shelf life is approximately **12 months** when stored under recommended conditions.

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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 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. : 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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