

THE LAB[®]

Chemicals & Coatings

-BIO-SMARTROOF-

TECHNICAL AND MATERIAL SAFETY DATA SHEET

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SUPPLIER IDENTIFICATION AND INFORMATION

Manufacturer name	THE LAB Chemicals & Coatings
Address of manufacturing	8 Garvin Circle, Strand, 7140
Tel number	+27 (0)21 852 7692
Email	info@thelabcc.co.za

www.thelabcc.co.za

THE LAB BIO-SMARTROOF

Product Information

THE LAB BIO-SMARTROOF is a superior waterbased acrylic paint suitable for all cementitious and metal roofs. Its smooth finish delivers lasting colour, excellent adhesion and superior durability.

Intended Uses

All new and previously painted cementitious and galvanised roofs. Can be used on prepared cladding, galvanised garage doors, galvanised gutters and down pipes.

Features & Benefits

Smooth finish. Superior acrylic emulsion
Weather resistant for lasting protection.
Excellent adhesion and durable.

Application Details

Mixing Stir thoroughly with a flat paddle until homogeneous and occasionally during use.

Method

Brush, roller or airless spray.
Thinning: Not recommended
Cleaning: Water

Storage & Packaging

Store away from direct sun, heat and severe cold.
Surface Preparation

Appearance	Satin
Colours	Standard colours
Solids	Approx. 25% byvolume
S G at 23 °C	1,18 g/l (approx)
Viscosity at 23 °C	105KU
Flash point	N/A
Theoretical spreading rate	8-10 m ² /l per coat @ 40 µm DFT.
Practical spreading rate	This serves as a guide only. The practical spreading rate will vary depending on the porosity and profile of the substrate, as well as the application technique and tools used.
Application Environment	Min: 10 °C -Max: 50 °C Max:
Surface Temperature Ambient Temperature	Min: 5 °C Min:- 40 °C Max
Relative Humidity	10% or 2 °C min. above dew point 85 %
Drying time	30 min at 23 °C
Touch dry	1 h at 23 °C
Dry to handle	2 h at 23 °C
Overcoating	
Packaging	5 l and 20 l

Surfaces must be clean, firm (sound) and thoroughly dry before painting. Remove any fungal growth or algae with Prep thinned down(see technical data sheet) Rinse thoroughly with fresh water. Allow to dry. Repair leaks and defective flashing with **THE LAB BIO-PROOF/SEAL AND A APPROVED WATERPROOF MEMBRANE.**

GALVANISED IRON

New:

Remove fabricators pre-treatment oil, grease and any other contaminants with **THE LAB BIO-WASH**. Hose and scrub down with a hard bristle brush and fresh water and repeat cleaning process until a water break-free surface is obtained. Prime with **THE LAB BIO-RUST PRIMER**

Unpainted and weathered:

Remove oil, grease, white rust or any other contaminants with **THE LAB BIO-WASH** to achieve a water break-free surface. Rinse thoroughly with fresh water. Then prime with **THE LAB BIO-RUST PRIMER**. Areas showing **red rust** must be abraded back to bright metal, patch primed with **THE LAB ETCH PRIMER** and then the whole surface primed with **THE LAB RUST PRIMER**.

Previously painted and weathered:

Clean with high-pressure water jet to remove all loose paint, chalk and dirt. Alternatively, clean with wire brushing, scraping, sanding, etc. and then scrub down with hard bristle brush and water.

FIBRE-CEMENT SHEETING

Unpainted and weathered:

Remove dust, dirt, loose granules, friable and powdery material with high-pressure water jet or alternatively scrub down with a hard bristle or wire brush and water. Allow surface to dry.

Prime with **THE LAB BIO-BOND**

Refer to technical data sheet for method of application. Allow to dry for at least 4 hrs @ 23°C

Previously painted in good condition: Remove dust, dirt, loose granules, friable and powdery material with high-pressure water jet or alternatively scrub down with a hard bristle or wire brush and water. Allow surface to dry.

Previously painted in poor condition: Strip completely. Restore powdery and friable surfaces to a sound condition before painting by applying **THE LAB BIO-BOND** (refer to technical data sheet for application details).

Allow to dry for at least 4 hrs @ 23°C. Apply **THE LAB BIO-SMARTROOF** within 48 hrs.

CEMENT TILES AND GRANULAR TILES

Unpainted and weathered:

Remove dust, dirt, loose granules, friable and powdery material with high-pressure water jet or alternatively scrub down with a hard bristle wire brush and water. Allow surface to dry.

Prime with **THE LAB BIO-BOND** refer to technical data sheet for application details.

Allow to dry for at least 4 hrs @ 23 °C. Apply **THE LAB BIO-SMARTROOF** within 48hrs.

Previously painted in good condition:

Remove dust, dirt, loose granules, friable and powdery material with high-pressure water jet or alternatively scrub down with a hard bristle or wire brush and water. Allow surface to dry.

Previously painted in poor condition:

Strip completely. Restore powdery and friable surfaces to a sound condition before painting by applying **THE LAB BIO-BOND**. Allow to dry for at least 4 hrs @ 23°C.

Apply **THE LAB BIO-ROOF** within 48 hrs.

ZINC ALUM AND ALUZINC:

Clean surface thoroughly with **THE LAB BIO-WASH** solution and rinse off with clean water. Allow to dry. Prime with suitable primer.

SPECIAL CAUTION TILES:

The painting of **clay, slurry coated tiles, slate and wooden shingles is NOT RECOMMENDED.**

Extremely porous surfaces-unpainted cement and well-weathered tiles:

Remove dust, dirt, loose granules, friable and powdery material with a high-pressure water jet or scrubbing with a hard bristle or wire brush and water. Allow surface to dry.

Apply undiluted **THE LAB BIO-BOND**. Allow to dry for at least 4 hrs @ 23°C before applying **THE LAB BIO-SMARTROOF**. Overcoat before contamination of the surface can take place.

Application

Stir thoroughly with a flat paddle. Apply by brush, roller or airless spray. **THE LAB BIO-SMARTROOF** must be applied undiluted. For **extremely porous surfaces**, such as unpainted cement and well weathered tiles, apply **THE LAB BIO-BOND**. Allow to dry for at least 1 hrs before applying **THE LAB BIO-SMARTROOF**. **Non-porous surfaces**, such as galvanised iron, apply two coats to achieve a minimum dry film thickness of 30 um per coat. Allow at least 2 hour drying time between coats.

NB: When painting corrugated sheet roofs, start at the apex and work downwards completing a full sheet at a time joining in the valleys to avoid lap marks.

Cautions

Friable and powdery surfaces require special care before painting- if in doubt contact a sales representative. For health reasons, avoid dusting when preparing fibre-cement surfaces. Keep surfaces wet and wash off residues with water.

- **The painting of slate, clay, slurry tiles and wooden shingles is not recommended.**
- Do not apply to surfaces where the temperature is less than 10 °C.
- Do not paint under conditions of frost, dew, rain or fog or inclement weather.

Note: Painting under the above conditions may affect the performance of the paint film. To ensure that colours on a project are consistent, check that batch numbers are the same.

Safety Precautions Keep out of reach of children. Ensure good ventilation during application and drying. In case of skin contact, wash with soap and water or a recognised skin cleaner. Avoid contact with eyes. In case of contact, rinse eyes immediately with plenty of water and seek medical advice if symptoms persist .Harmful if swallowed, do not induce vomiting. Seek medical attention.

MATERIAL SAFETY DATA SHEET



SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Name : THE LAB BIO-SMARTROOF
Date Issued : 02/04/2021 CAS no. : n/a
EC no. : n/a UN No. : 1263 SAPMA : 4-H-C
In emergency contact : THE LAB

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 with General Administrative Regulations of 6 Sept. 1996 (ISO-11014/ANSI Z400.1.1996) 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.