

# THE LAB<sup>o</sup>

## Chemicals & Coatings

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### BIO-SEAL

#### TECHNICAL AND MATERIAL SAFETY DATA SHEET

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#### SUPPLIER IDENTIFICATION AND INFORMATION

Manufacturer name	THE LAB Chemicals & Coatings
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## PRODUCT IDENTIFICATION

# BIO-SEAL

Elastomeric coating

<b>PRODUCT NAME</b>	Bio-Seal
Date Issued	01/02/2016
CAS no.	n/a
EC no.	n/a
UN No.	1263
SAPMA	4-H-C
In emergency contact	
Product Description	Bio-Seal is a modified flexible multiphase emulsion with a slight sheen for waterproofing of roofs, parapets and wall surfaces. The product are designed for Bitumen overcoat application.
Principal Characteristics	<ul style="list-style-type: none"><li>• Self-cleaning</li><li>• Highly durable</li><li>• Copolymer-based coating which cures to form a tightly adherent, decorative weatherproof membrane.</li><li>• Water-based product free from strong odour, toxic risk and may be cleaned with using only water on brushes and spray equipment.</li><li>• Tolerates thermal movement in the substrate without splitting or cracking and will retain its elastomeric properties.</li><li>• Chemical and pollution resistant surface that has been specially engineered to shed dirt to ensure it retains a bright, attractive appearance.</li><li>• Vapour permeable and allows entrapped substrate moisture to escape without causing blistering or delamination.</li><li>• Produces an effective barrier to carbon dioxide diffusion and therefore provides reinforced concrete with an excellent defense against harmful effects of carbonation.</li><li>• Should be reinforced with membrane and is capable of bridging cracks or joints between substrates*.</li></ul>
Intended use	Bio-Seal is a flexible waterproofing encapsulation product of exceptional quality and durability. A general water-proofer used in conjunction with polyester membrane for parapets, flashings, Asbestos, IBR, Tile and Flat roofs with an acceptable "run-off".

## COMPOSITION

EC Classification: Not classified as hazardous.

No significant quantity of classified hazardous substances present.

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

<b>TECHNICAL DATA</b>	
Binder type	Modified copolymer
Drying time	Surface: 1 - 2 hours (at 23°C and 50% relative humidity) Hard Dry/fully trafficable Single coat - 24 hours
Drying Process	Water evaporation followed by coalescence
Overcoating	4 hours
Viscosity	Thixotropic
Specific Gravity	1.33 - 1.35 ±0,05kg/ltr
Non-Volatile Content Mass	54-58%±3%
Volume	41-44%±3%
Gloss	Satin Sheen
Coverage	3m <sup>2</sup> - 6m <sup>2</sup> / litre for entire application system
Flash Point	Not Applicable
Application Temp	>4°C <40°C
Colour Range	Standard Colours (colour to be made as per agreement)
Cleaning	Water
De-canning sizes	1L / 5L / 20L

## HAZARD IDENTIFICATION

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

<b>PRIMARY ROUTE OF EXPOSURE</b>	
Inhalation	Avoid exposure to vapours, fumes and mists.
Eye contact	No direct hazard is expected but possible eye contact with any chemical must always be avoided.
Skin contact	No hazard expected if used in moderation.
Ingestion	Irritating and nauseating.

- No carcinogenic, mutagenic or genetic effects established.
- May have short term environmental effects. Contain, monitor & remove.

## FIRST AID MEASURES

Inhalation	Move to fresh air.
Eye contact	In case of any contact and discomfort rinse well with water and seek medical advice.
Skin contact	Always wash after handling chemical substances.
Ingestion	Wash mouth with plenty of water. Do NOT induce vomiting. seek medical attention.

## FIRE-FIGHTING MEASURES

Dried residues - combustible with toxic fumes. No direct explosion hazard expected.

## ACCIDENTAL RELEASE MEASURES

Contain & collect. Keep out of drains and sewers

## HANDLING AND STORAGE

Store separately from any reactive substances - oxidisers in particular

## EXPOSURE CONTROLS / PERSONAL PROTECTION

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

PERSONAL PROTECTION	
Inhalation	In case of insufficient ventilation, use suitable respiratory protection.
Skin protection	Use only as directed.
Eye protection	Avoid direct contact. Never touch eyes with dirty hands or gloves.
Ingestion	Observe the rules for hygiene. Wash before eating, drinking or smoking.



## STABILITY AND REACTIVITY

- Stable under normal conditions
- Inert - no reaction with fire-fighting water

## PHYSICAL AND CHEMICAL PROPERTIES

Chemical class	Non-hazardous material
Description	Viscous liquid
Smell	Pungent
Flashpoint (C)	n/a

## TOXICOLOGICAL INFORMATION

No carcinogenic, mutagenic or genetic effects established.

## ECOLOGICAL INFORMATION

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

## DISPOSAL INFORMATION

Use reputable waste disposal contractors. Exercise caution in disposal of used containers.

## TRANSPORT INFORMATION

Not classified as dangerous for transport.



## REGULATORY INFORMATION

EC no.	n/a
EC Classification	Not classified as hazardous
S2	Keep out of reach of children. (Retail sales items)

## OTHER INFORMATION

All data is based on the current knowledge of and describes the product with reference to safety data and is therefore not intended to guarantee certain properties.

## IN CASE OF ANY DISCOMFORT ALWAYS SEEK MEDICAL ADVICE

This MSDS conforms with General Administrative Regulations of 6 Sept.1996 (ISO-1014/ANSIZ400.1.1996) OELs derived from OHSAct 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.

## SAFETY INSTRUCTIONS

- Always keep out of reach of children and animals.
- Ensure good ventilation during application and drying.
- If accidental contact with skin occurs, wash immediately with soap and water or a recognized skin cleaner.
- If accidental contact with eyes occurs, rinse immediately with plenty of water and seek medical advice.
- Harmful if swallowed.
- Seek medical attention and do not induce vomiting.

## GENERAL

Different surfaces and environmental conditions require specific painting systems to produce the best possible results. It is therefore recommended that you contact a Sales Representative for advice on all your painting requirements whenever possible.

## APPLICATION

Correct surface preparation is essential for good product performance and all surfaces should be prepared as per the standard Preparation Specifications.

Do not apply when ambient temperatures are  $<4^{\circ}\text{C}$  or  $>40^{\circ}\text{C}$ .

After correct surface preparation, prime with the recommended primer.

Apply one coat of Bio-Seal as supplied to an area not exceeding one metre by the width of the Polyester Fabric used. Firmly press the fabric into the coating before the Bio-Seal begins to dry. Repeat the process in one metre length at a time. Allow the application to dry before proceeding.

(Drying time is 1 – 2 hours at standard condition of  $25^{\circ}\text{C}$  and 50% humidity).

If the Polyester fabric becomes rain saturated, allow to dry out completely over an extended period before proceeding with the application process.

If the membrane becomes saturated after rain, allow to dry out completely over an extended period before proceeding with the application process.

Apply one coat of Bio-Seal and saturate the membrane surface. Allow the application to dry thoroughly before proceeding.

(Drying time is 2 hours at standard condition of  $25^{\circ}\text{C}$  and 50% humidity).

Finally, apply two coats of Bio-Seal as supplied, allowing time to dry between coats.

(Drying time per coat is less than 1 hour at standard condition of  $25^{\circ}\text{C}$  and  $50^{\circ}\text{C}$  humidity).

## PREVENTING PROBLEMS AND GENERAL INFORMATION

### IMPORTANT:

- Walls (cement plaster, concrete or masonry) must be dry before painting and should be equal to but not exceed a moisture content of 10% as measured with a Protimeter Surveymaster Moisture Metre.
- The ambient temperature must be between  $4^{\circ}\text{C}$  and  $40^{\circ}\text{C}$  and humidity between 10% and 85%.
- Excessive application thickness and/or rapid drying could lead to mud cracking.
- Avoid applying under adverse weather conditions as this could result in poor product performance.
- Work from corner to corner, or from a natural cut off point to another.
- Do not attempt touch ups but redo complete panels.

Once the process of waterproofing has started, do not stop during the application process to prevent lap marks and variances in colour or texture. To ensure consistent appearance ensure that the batch numbers on all containers used are the same. Where batch numbers on containers differ, intermix containers before use.

## **CLEANING, STORAGE AND DISPOSAL**

- Remove as much paint as possible from application equipment and wash immediately after use with water.
- Close containers tightly after use and store in a cool, well-ventilated area.
- Do not empty contents or wash water into drains or water courses.
- When disposing, please follow local authorities' regulations and recycle the container after use.

## **NOTE**

- The recommendations contained in these data sheets are based on results obtained from tests and experience. It is believed to be reliable but is given as a guide only.
- No guarantee is implied by the recommendations contained herein since conditions of use, method of application and preparation of the substrate prior to painting are beyond
- our control.
- Our technical section should be contacted to clarify recommendations and specifications for projects, either of a specific or general nature.