

THE LAB[®]

Chemicals & Coatings



Technical and Material Safety Data Sheet

Version: 2026



THE LAB DTM 2 IN 1 PRIMER Solvent Base

THE LAB DTM 2-in-1 METAL COATING

Product Family: **Primers** & Metal Protection Systems (Direct-to-Metal Coating)

Typical System Guidance

System selection should be based on substrate type, substrate condition and service environment.

A typical direct-to-metal coating system may consist of:

New Metal

1. Surface cleaning and preparation
2. **THE LAB DTM 2-in-1 METAL COATING** – two coat system

Previously Rusted Metal

1. Surface preparation and rust removal
2. **THE LAB PREP**
3. **THE LAB DTM 2-in-1 METAL COATING** – two coat system

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

Product Description

THE LAB DTM 2-in-1 METAL COATING is a premium quality direct-to-metal coating designed to provide both decorative and protective performance in a single product. The coating combines primer, undercoat, anti-corrosion protection and finishing coat properties into a single application system.

The product provides excellent adhesion to a variety of metal substrates including mild steel, galvanised steel, wrought iron, stainless steel and aluminium. Once cured, the coating forms a durable barrier that provides long-term resistance to weathering, ultraviolet exposure, abrasion and corrosion.

THE LAB DTM 2-in-1 METAL COATING is suitable for both new and previously coated metal surfaces in interior and exterior environments.

Technical Data Summary

Property	Typical Value
Product Type	Direct-to-Metal Protective Coating
Colour	White, Grey and selected standard colours
Finish	Smooth
Binder Type	Solvent-Based Enamel
Volume Solids	36–38%
Specific Gravity	+/- 1.10 kg/L
Application Method	Brush, Roller or Spray
Touch Dry	+/- 1 hour
Recoat Time	+/- 2 hours
Coverage	+/- 10 m ² /L per coat
Recommended WFT	150 µm
Recommended DFT	57 µm per coat
Number of Coats	2
Surface Temperature Limits	10 – 13 °C
Relative Humidity Limits	< 50°C
Weathering Resistance	Excellent
UV Resistance	Excellent
Abrasion Resistance	Excellent
Clean Up	The Lab Eco Solve
Fire Hazard	Flammable
Shelf Life	12 months
Storage Temperature	Below 25°C

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

THE LAB DTM 2-in-1 METAL COATING is designed for the protection and decoration of interior and exterior metal surfaces.

Typical substrates include:

- Mild steel
- Wrought iron
- Galvanised steel
- Stainless steel
- Aluminium
- Metal roofing sheets
- Metal cladding
- Gates and fencing
- Structural steel components
- Industrial metalwork

The coating may be applied directly to suitably prepared metal substrates and provides anti-corrosion protection for both new and previously rusted metal surfaces.

Principal Characteristics

- Direct-to-metal application
- Primer, undercoat and topcoat in one product
- Excellent adhesion to metal substrates
- Excellent UV resistance
- Excellent weather resistance
- Corrosion resistant
- Abrasion and scratch resistant
- Rapid drying
- Good flow and levelling properties
- Suitable for interior and exterior applications
- Available in attractive decorative finishes

Surface Preparation

All surfaces must be clean, dry, structurally sound and free from grease, oil, dirt, rust, mill scale, salt contamination and other contaminants that may impair adhesion.

New galvanised steel should be thoroughly cleaned to remove temporary protective oils and contaminants prior to coating application.

Previously rusted surfaces should be mechanically prepared by sanding, wire brushing, needle gunning or abrasive blasting to remove loose rust and deteriorated material. Abrasive blast cleaning to Sa 2½ (ISO 8501-1) is recommended where practical. Clean surfaces using **THE LAB PREP** to remove oils and contaminants, and rinse thoroughly with clean water. Remove any loose scale, rust or surface contamination before applying the primer.

Smooth metal surfaces should be lightly abraded to promote adhesion. All dust and preparation residues must be removed before coating application.

Application Guidelines

THE LAB DTM 2-in-1 METAL COATING may be applied by brush, roller or spray equipment.

Apply two coats to achieve optimum film build and long-term protection.

Do not apply:

- When ambient temperature is below 10°C
- During rain or when rain is imminent
- To wet or contaminated surfaces
- To excessively hot substrates

For spray application, thinning of up to 15% with a suitable thinner may be required depending on equipment and site conditions.

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

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 well ventilated area away from direct sunlight and extreme temperatures.

Keep containers tightly closed when not in use.

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

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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

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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