

ULTRA METALLIC

Technical Data Sheet

Last Updated: 3 June 2024

1. Introduction

Ultra Metallic is a high-performance, two-component, 100% solid epoxy system designed to provide a **durable, low-yellowing** clear coat for flake and metallic flooring applications. Its superior formulation ensures excellent adhesion, penetration, and protection for a wide range of surfaces.

3. Key Benefits

- **Exceptional UV resistance** to minimize yellowing.
 - **Compatible with both dry and damp substrates.**
 - **Deep penetration and superior adhesion** for enhanced durability.
 - **Low viscosity** for easy application and seamless finishes.
 - **Strong chemical and mechanical resistance.**
 - **Designed for heavy load-bearing areas.**
 - **Effortless application** with a brush, roller, or spray.
 - **100% solids formulation** for long-lasting performance.
 - **Fast drying time**, reducing downtime before applying additional coatings.
 - **Cost-effective solution** for surface protection and restoration.
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PREMIUM GRADE PROTECTIVE COATINGS

4. Application Guidelines

Surface Preparation

- The substrate must be **clean, dry, and free from contaminants** such as oil, grease, and old coatings.
- Remove all loose materials and surface laitance using **shot blasting, high-pressure water blasting, scabbling, needle gunning, or bush hammering** as appropriate.
- Ensure the **substrate's tensile strength is at least 1.5 MPa**.
- Avoid **standing water**; however, light dampness is acceptable on very absorbent surfaces.

Mixing Instructions

1. Add tint or metallic powder to **Component A** and stir using a power mixer for at least **2 minutes**
2. Pour **Component B into Component A** and mix thoroughly using an electric stirrer for at least **3 minutes** until uniform.
3. Add approximately 700ml of Xylene or GP thinner to adjust viscosity, enhance flow, and minimise outgassing.

Application Methods

- Apply **by brush, roller, or squeegee** depending on project requirements.
 - Pour the product onto the floor and distribute it evenly using a squeegee. Avoid leaving the mixture in the bucket for extended periods to prevent thickening or massing.
 - Clean tools and equipment with **Xylene** immediately after use to prevent curing. Once hardened, removal is only possible by mechanical means.
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5. Important Considerations

- Not suitable for substrates with significant **vapor pressure**. If moisture is present, prime with **UltraBarrier** before application
- Ensure **adequate ventilation** when working in enclosed spaces.
- **Protect freshly applied surfaces from moisture, condensation, and water exposure for at least 48 hours.**
- If unsure about application methods, consult **Ultrakote Australia Pty Ltd's Technical Department**.

Safety Precautions

- Wear **protective gloves, goggles, and suitable clothing** during application.
- In case of **skin contact**, wash immediately with soap and water.
- In case of **eye contact**, flush thoroughly with water and seek medical attention.
- Keep away from food and drink to prevent contamination.

6. Technical Data

Property	Specification
Form	Component A: Brownish-transparent liquid Component B: Transparent liquid
Appearance When Applied	Clear and glossy
Density (at 25°C)	1.0 ± 0.1 kg/litre (Component A + B)
Mix Ratio	2:1 (by weight or volume)
Pot Life (at 25°C)	~40 minutes
Application Temperature	8°C – 30°C

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Property	Specification
Maximum Relative Humidity	~80%
Curing Times	Initial Cure: 1 day @ 20°C Recoating Time: 12 hours (max. 36 hours) Light Traffic: 1 day Full Cure: 7 days
Maximum Substrate Moisture Content	12% by weight
Storage Life	12 months (unopened, stored in dry conditions at 5°C – 30°C)
Packaging	Pre-measured units (A+B) in 12kg sets

7. Additional Information

A comprehensive **Material Safety Data Sheet (MSDS)** is available upon request from **Ultrakote Australia Pty Ltd.**

Contact Information

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