WARDEN ANTIGRAFFITI SYSTEM – TECHNICAL DATA SHEET (TDS)

1. Product Description

A **two-component (2K) anti-graffiti coating system** designed to provide a durable, chemically resistant surface that allows graffiti (spray paint, marker ink, felt pen, lipstick) to be **removed by wiping or mild cleaning**, without damaging the underlying coating.

The system cures by chemical reaction between **Part A (Base / Resin)** and **Part B (Crosslinker / Hardener)** to form a tough, non-porous polyurethane film.

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2. Intended Use

- Anti-graffiti protection for:
  - Concrete
  - Masonry
  - Steel
  - Aluminium
  - Previously coated surfaces
- Suitable for **interior and exterior** applications
- Designed for **professional application**

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3. Key Performance Features

- Excellent resistance to spray paint and permanent markers
- Graffiti removal using approved cleaners without coating damage
- High chemical resistance once cured
- Good UV and weather resistance
- Hard, non-porous, easy-to-clean surface
- Compatible with solvent-based and water-based graffiti removers (patch test recommended)

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4. System Components

Component	Description
Part A	Polyurethane base resin
Part B	Reactive crosslinker / hardener

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5. Mixing Ratio

Mixing ratio (by volume):

Mix the part B vessel into the Part A vessel.

Do not attempt to mix only part of each vessel

(Confirm exact ratio from product label before mixing.)

- Mix only the number of vessels that can be used within the pot life
- **Stir Part A** thoroughly before adding Part B
- Add Part B slowly while stirring
- Mix for at least **2–3 minutes** until homogeneous

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6. Application Data

Property	Typical Value
Application method	Roller, brush, airless spray
Recommended coats	1–2 coats

Recommended DFT	60–100 µm total
Coverage	8–12 m²/L (depending on substrate)

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7. Pot Life

Temperature	Pot Life
10 °C	~90 minutes
20 °C	~60 minutes
30 °C	~30 minutes

Higher temperatures will significantly reduce pot life.

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8. Drying and Curing

Stage	Time @ 20 °C
Touch dry	2–4 hours
Recoat window	6–24 hours

Light service	24 hours
Full chemical cure	7 days

Low temperatures and high humidity will extend cure times.

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9. Surface Preparation

All surfaces must be:

- Clean
- Dry
- Free from oil, grease, wax, curing compounds, and contaminants

Typical preparation:

- **Concrete:** Allow to cure minimum 28 days; grind or acid-etch if required
- **Steel:** Abrasive blast or mechanically prepare; prime if required
- **Previously coated surfaces:** Clean thoroughly and lightly abrade

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10. Graffiti Removal Guidance

Once fully cured, graffiti can typically be removed by:

- Approved graffiti removers
- Mild solvents
- Warm water with detergent (depending on graffiti type)

Always patch test the chosen remover before large-scale cleaning.

Avoid:

- Abrasive pads
- Harsh scraping
- Prolonged solvent soaking

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11. Environmental Conditions

Parameter	Requirement
Substrate temperature	≥ 5 °C
Relative humidity	≤ 85 %
Surface moisture	Dry

Do not apply if condensation is present or expected.

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12. Cleaning of Equipment

- Clean tools immediately after use
- Use appropriate solvent recommended for polyurethane coatings

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13. Storage

- Store unopened containers in a cool, dry place
- Protect from frost and direct sunlight
- Shelf life: **12 months** from date of manufacture (unopened)

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14. Health and Safety

- Refer to the **Safety Data Sheets (SDS)** for Part A and Part B
- Use appropriate PPE during mixing and application
- Ensure adequate ventilation

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15. Disclaimer

The information contained in this Technical Data Sheet is based on laboratory testing and practical experience. Because application conditions are beyond the manufacturer’s control, no warranty is implied. The user is responsible for determining suitability for the intended application.