
Graffiti Shield

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INTRODUCTION

Graffiti Shield is a two-part water based non-yellowing satin coating that forms a very hard protective film over most substrates to shield it from potential graffiti damage. **Graffiti Shield** is a non sacrificial Anti-Graffiti Coating.

Coating a surface with **Graffiti Shield** leaves any surface coated with a smooth durable impermeable surface that will protect the surface from both the penetration of the graffiti and from the graffiti removal process itself, allowing for easy removal of the graffiti. When the graffiti removal process is quick and easy it can be done promptly which in itself will further deter offenders from re-application of the graffiti, thus leading to a more cost effective management of the problem. Rapid removal of the graffiti (within 24-48hrs) also ensures that graffiti markings are not allowed sufficient time to either harden or penetrate deeply into the substrate, thus enabling easier, cheaper and complete removal without any substrate damage.

USE

Graffiti Shield non sacrificial Anti-Graffiti Coating can be used for the protection of interior & exterior walls. It can be applied directly to painted surfaces, concrete, masonry and metal.

FEATURES

- Outstanding chemical resistance
- Water based, non-yellowing
- Resists moisture, grease, detergents and chemicals
- Excellent adhesion & abrasion resistance
- Self-priming
- Can be used as an anti-carbonation coating

TECHNICAL DATA

Colour/consistency	Milky white, dries clear
Odour	Sweet
Application conditions	Temperature: 5° to 35°
	Humidity: < 85%
Mixing ratio	3:1
Coverage rate	8 to 12 m2per ltr – Min 2 coats required
Working Time	>2hrs
Cure Time	2 to 4 hours on thin film
Pack Size	4 ltr kit, 16 ltr kit
Shelf Life & Storage	Twelve months in unopened containers

APPLICATION

SURFACE PREPARATION

- **Graffiti Shield** must be able to penetrate into the concrete to achieve maximum surface protection, it should not be applied to surfaces covered by anything that can inhibit penetration, such as dirt, grease, glues.
- Prior to application ensure that the substrate is clean, dry and free of wax and oil and any loose, flaking material and substances that may inhibit the coating from soaking into the surface of the substrate.
- Particularly the application surface may require cleansing with strong detergents, high pressure cleaning, acid wash or other to prepare it for application.
- Always test the coating on a small area first to see how it will look as a finished product.
- Mask off any areas not intended for coating.
- Different substrates will require different surface preparation.
 - **STEEL** – Abrasive blast AS1627.4 Class 2.5
 - **CONCRETE** – Clean surface to remove contaminants. Diamond grind, acid wash or light-shot blast. Remove dust.

APPLICATION

- Use of a power mixer is recommended.
- To prevent large amounts of bubbling or foaming, use a Squirrel Mixer®. Add the hardener slowly into the mixing vortex in the resin component maintaining the stirring throughout the addition. Continue for a minimum of 3 minutes. Use a clean straight edged stirring stick to bring the boundary layer on the sides and bottom of the resin container into the mix. Proper mixing of the viscous hardener into the low viscosity resin component is critical to achieve proper coating properties
- Do not apply at temperatures below 5°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint.

Roller/brush application:

- Apply even coats by brush of the mixed material to the prepared surface.

Conventional spray:

- Apply multiple wet coats by overlapping each pass by 50%.
- Typical Set-up of Graco Delta Gun:
 - Pressure at Pot: Pressure at Gun: 1.4mm, 70-100 kPa (10-15 p.s.i.) 380-410 kPa (55-60 p.s.i.)

Airless spray:

- Standard airless spray equipment can be used such as a Graco 30:1 President
- Use fluid tip of 13-15 thou (0.33- 0.38mm)
- Air supply will need to be (80-100 p.s.i.) at the pump.
Note: Thinning is not normally required but up to 100 ml/litre of water may be added to ease application.
- Please note that **Graffiti Shield** is an industrial product designed for use by experienced Protective Coating applicators.
Note: Where conditions may require variation from the recommendations on this Product Data Sheet please contact Con-Treat or your nearest sales representative for advice prior to application.
- Ensure that you read and understand the safety precautions on the Material Safety Data Sheets for the two components before using.
- The recommended thinner MUST be used as some solvents react with the isocyanate hardener seriously degrading the life of the coating. Under no circumstances should methylated spirits or paint thinners be used.

CLEAN UP:

- Clean all equipment with water immediately after use.
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Graffiti Removal

Contact Con-Treat for an appropriate Graffiti Remover.

Aerosol spray paints and felt-tip pens are the most commonly encountered markers due to their ease of application and their bold, indelible characteristics. Other less frequently used materials include brush applied paint, wax crayon, lip-stick, ballpoint pen, chalk, lead pencil, oil, food and scratching. All removability of the Graffiti depends both on the type of substrate surface and the chemical composition of the marking materials themselves.

There are three main types of cleaning methods available for removal of graffiti markings;

- **Abrasive methods** such as wet or dry sand blasting. This method can be limited to a handful of scenarios as it can be potentially damaging to both treated and untreated substrates. Furthermore, it's a very expensive option and subsequently undesirable to most situations.
- **Heat related methods** such as steam cleaning can be used to remove some paints. However, a high level of expertise is required to ensure that volatiles are not driven into porous concrete or masonry
- **Chemical removal agents** are the most convenient and least damaging to either treated or untreated surfaces, and are generally recommended for the removal of all types of graffiti markings. There are two main types, organic solvent blends and inorganic, caustic based blends. Organic solvents can break down and are preferred. Caustic based blends do not break down, are not as effective and therefore are not preferred. Inorganic solvents such as acids are not preferred as they attack the concrete. Generally, chemical solvents soften, swell and partly dissolve the marking medium and allow removal by cloth, brush, scrubbing with water and detergent or low pressure water jet. Chemical removers must be compatible with the associated anti-graffiti coatings. Care should be taken where combinations of anti-graffiti and decorative coatings are used to ensure that the underlying coating is not attacked by the aggressive removers if the contact time is prolonged

Proper cleaning and maintenance techniques will maximize the performance of **Anti-Graffiti** coating system, returning many years of service for your investment.

SAFETY

Good industrial hygiene should be observed at all times – Appropriate PPE should be worn including impervious gloves & eye wear. If sprayed use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas).

First Aid

Eyes: If sprayed into eyes, flush with water for 15min. Seek medical advice.

Skin: Wash affected area with soap and water.

Inhalation: If mists are inhaled, remove patient to fresh air. Seek medical advice.

Swallowed: Do NOT induce vomiting. Give milk or water to dilute. Seek medical advice.

For further information, refer to the Fortis Material Safety Data Sheet. www.fortisadhesives.com.au

Disclaimer

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