

Dulux Surfaceshield® HD

Anti-Graffiti Surface Treatment

What are anti-graffiti products?

Surfaceshield® HD is a clear and colourless, heavy duty, non-film forming surface treatment for the protection of surfaces subject to defacement and deterioration by graffiti, pollution, and everyday contaminants. It is a non-sacrificial surface treatment, allowing repeated graffiti removal when applied in accordance with data sheet recommendations.

Surfaceshield® HD is a water-based low VOC product formulated to meet VOC regulations. The non-toxic, water borne formulation is safe to apply with easy water wash up.

The product penetrates even the smallest pores without modifying the water vapour permeability of the substrate, nor its visual appearance. It works by reducing the ability of the graffiti to penetrate the substrate or bond to it, and thus facilitates the removal of graffiti by propriety graffiti removal products such as Selleys® Muck-Off®.

Once applied, the Surfaceshield® HD imparts the following surface properties:

- Increase in water and oil repellency and thus repels most graffiti and contaminants
- Reduction in ability of most types of graffiti to penetrate the treated substrate
- An effective deterrent to graffiti artists to reapply graffiti

Suitable Substrates

Generally, Surfaceshield® HD can be used to protect and preserve a wide variety of porous materials used in construction, retail, municipality, hospital, and urban environments.

Suitable porous substrates include:

- Clay/brick masonry
- Natural Stone
- Non-glazed tiles
- Concrete
- Sandstone*

Protects Against

- Vandalism caused by graffiti, paint and permanent markers
- Atmospheric pollution, dirt and grime
- Construction damage, grout staining and marking
- Chewing gum
- Oil & food stains
- Tyre marks
- Mould

* Soft and easily damaged substrates, such as Limestone and some Sandstone, may require specialized preparation prior to treatment with Surfaceshield®. Refer to your Dulux Protective Coatings Specifications Consultant for specific advice



TYPICAL SYSTEMS

This is a guide only and not to be used as a specification. Your specific project needs must be discussed with a Dulux Protective Coatings Consultant.

SURFACE	ENVIRONMENT	PREPARATION GUIDE	SYSTEM		PASSES REQUIRED	COVERAGE (m ² /L)
SMOOTH (Precast concrete)	Exterior	Clean and degrease substrate to remove contaminants, including bond breakers	1 st Coat	Surfaceshield® HD	2 passes*	5
POROUS (clay bricks, natural stone, concrete)	Exterior	Clean and degrease substrate to remove contaminants	1 st Coat	Surfaceshield® HD	2 passes*	4
			2 nd Coat	Surfaceshield® HD	2 passes*	4
VERY POROUS	Exterior		Not Recommended			

*Multiple passes must be applied wet on wet

Cleaning and Graffiti Removal

A combination of graffiti removal chemicals & hot water power washing is the most effective and fastest cleaning method. When power washing, a continuous flow of hot water (>75°C) on board water heater is recommended. Hot water helps emulsify grease, oil and other contaminants and speeds up the cleaning process using low pressure.]

- Use a minimum 45° angle flat spray tip. Spray power should not exceed 65 bar and a spray distance of 10cm should be maintained. Avoid higher pressure water washing as this causes abrasion and may compromise the protective treatment. Surfaces protected with Surfaceshield® HD may be damaged by harsh cleaning methods and aggressive cleaning chemicals. The use of turbo nozzles should not be used in any circumstance as they require high pressure and will cause abrasion of the substrate surface.
- For areas polluted with vegetable oil, motor oil, grease or paint, the use of cleaning agents or graffiti removers will be required. See table below for a list of recommended cleaning agents. When using cleaning agents, it is important that the manufacturers' instructions are followed correctly.

TYPE OF POLLUTION	CLEANING AGENT	PH RANGE
Light pollution without oil or grease	None or mild soap	7.5-9.0
Medium pollution with food spilling, light oil and grease	Mild bio degreaser	9-11
Heavy pollution by oil, grease or gasoline	Citrus degreaser	<11.5
Paint or graffiti	Chemical graffiti remover	12-13

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Surface Preparation and Application

1. The surface must be free from contaminants including grease, oil, dirt, bond breakers, previous coatings, sealers, and loosely adhering materials. An industrial detergent and hot water high-pressure cleaning may be required to remove persistent deposits. Soft and easily damaged substrates, such as limestone and some sandstone, may require specialized preparation prior to treatment with Surfaceshield® HD. Refer to your Dulux Protective Coatings Specifications Consultant for specific advice.
2. Concrete should be more than 28 days old. Application over strongly alkaline surfaces (such as new concrete) will affect the performance of Surfaceshield® HD.
3. The surface can be either dry or Saturated Surface Dry (SSD)* before applying Surfaceshield® HD.
4. Apply one or two layers of Surfaceshield® HD to the surface being protected using low pressure spray. It is recommended that application of this product starts at the bottom of a vertical substrate and then working the product up to the top. The amount of Surfaceshield® HD required will increase with increasing porosity of the surface being coated. Subsequent layers can be applied when the coating becomes touch dry. Refer to the recommended system guide for an indication of the spreading rates required for the surface to be protected. Insufficient application of Surfaceshield® HD will dramatically affect its performance and ability to protect the substrate.

* SSD is defined as the concrete substrate is darkened by water but there is no pooling of water or heavy runoff of water on the concrete surface

