

SURFACESHIELD™ S

Sacrificial Anti-Graffiti Surface Treatment

PC 951

- FEATURES**
- RESISTS PENETRATION OF MOST TYPES OF GRAFFITI
 - REMOVES GRAFFITI WITHOUT HARSH CHEMICALS
 - INVISIBLE AND VAPOUR PERMEABLE FILM
 - SAFE TO USE IN PUBLIC AREAS DURING APPLICATION, REMOVAL AND REAPPLICATION
 - DOES NOT CHANGE THE APPEARANCE OF THE ORIGINAL SURFACE

USES Surfaceshield™ S is a microfilm surface treatment that can be applied onto a range of surfaces to provide sacrificial protection against graffiti and normal atmospheric dirt and grime. It is water-based, low VOC and non flammable. With a low VOC formula, Surfaceshield™ S is suitable for use in Greenstar compliant projects.

Most types of graffiti on surfaces treated with Surfaceshield™ S can be safely and effectively removed, avoiding costly traditional methods of removing graffiti such as chemical stripping, abrading or abrasive blasting. Once graffiti has been removed, Surfaceshield™ S can be economically reapplied and avoids the high cost of preparing and re-painting surfaces. Surfaceshield™ S can be used on most types of natural and artificial stone and brick facades.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Waterborne vegetable based copolymer	APPLICATION CONDITIONS			
FINISH	Invisible		Min	Max	
COLOUR	Clear colourless	Air Temp.	10°C	30°C	
		Substrate Temp.	10°C	30°C	
		Relative Humidity		85%	
COMPONENTS	One	FILM THICKNESS (MICRONS)			
VOLUME SOLIDS	Not applicable		Min	Max	Recommended
VOC LEVEL	<1 g/L	Wet film per coat (µm)	Not applicable. Refer to Typical Systems guide for spreading rate		
FLASH POINT	Non flammable	Dry film per coat (µm)			
POT LIFE	Not applicable	SUITABLE SUBSTRATES	Concrete, bricks, natural stone and other vertical masonry surfaces		
MIXING RATIO V/V	Single Pack	SUITABLE TOPCOATS	N/A		
THINNER	Do not thin	APPLICATION METHODS	Conventional, airless spray or air assisted spray, using low pressure.		
PRODUCT CODE	992-H0048 Surfaceshield™ S				

DRYING CHARACTERISTICS

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max*
25° C	50%	30 Minutes	2 Hours	7 Days	When dried	Extended

These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

PROCEDURE

- 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 for persistent deposits. 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.
 2. Do not apply on strongly alkali surfaces (such as new concrete) as this may affect the performance of Surfaceshield™ S.
 3. For porous surfaces, dampen the surface with water.
 4. Apply the first coat of Surfaceshield™ S so that a uniform, shiny film forms on the surface. Immediately re-apply Surfaceshield™ S to areas where shine suddenly disappears. The amount of Surfaceshield™ S required will vary with porosity of the surface being coated. Refer to the Typical Systems guide for approximate spreading rates required. Excessive application will cause runs, yellowing or coating delamination, while inadequate application will provide inadequate protection.
 5. Once Surfaceshield™ S is touch dry and no longer visible, another coat may be applied.
 6. Follow steps 4 and 5 for subsequent coats.

IMPORTANT NOTE: This product is to be applied by a specialist applicator suitably trained in the application of Surfaceshield™ S and the removal of graffiti according to Surfaceshield™ guidelines. The applicator is required to record application works and be able to remove graffiti from affected areas using the correct Surfaceshield™ procedure. Deviation from this requirement may adversely affect graffiti management.

SPREADING RATE 3 – 5 square metres per litre

ASSUMING NO LOSSES

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

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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 surface to remove contaminants, including bond breakers.	1 st Coat Surfaceshield™ S	1 pass	4 – 5
POROUS (clay bricks, natural stone, concrete)	Exterior	Clean and degrease surface to remove contaminants. Wet the surface with water prior to application.	1 st Coat Surfaceshield™ S	1 pass	3 – 4
			2 nd Coat Surfaceshield™ S	1 pass	3 – 4
			1 st Coat Surfaceshield™ HD	1 – 2 passes*	4
			2 nd Coat Surfaceshield™ S	1 pass	3 – 4
VERY POROUS (Sandstone)	Exterior	Clean and degrease surface to remove contaminants.	1 st Coat Surfaceshield™ S	1 pass	2 – 3
			2 nd Coat Surfaceshield™ S	1 pass	2 – 3
			3 rd Coat Surfaceshield™ S	1 pass	2 – 3
			1 st Coat Surfaceshield™ HD	1 – 2 passes*	3 – 4
			2 nd Coat Surfaceshield™ S	1 pass	2 – 3
			3 rd Coat Surfaceshield™ S	1 pass	2 – 3

*Multiple passes must be applied wet on wet

SURFACE PREPARATION	Concrete: Concrete must be at least 28 days old before coating. Remove curing compounds, oil, grease and other oily contaminants with Gamlen CA 1 (according to the manufacturer's written instructions and all safety warnings). Remove all laitance and loose material.
APPLICATION	Mix thoroughly using a power mixer until the contents are uniform.
BRUSH/ROLLER	Suitable for small areas only. Apply even coats of the material to the prepared surface.
CONVENTIONAL SPRAY	Apply in multiple wet coats overlapping each pass 50%.
AIRLESS SPRAY	Standard airless spray equipment. Tips between 0.17mm and 0.21mm are suggested to avoid flooding the surface.
PRECAUTIONS	Surfaceshield™ S is an industrial product designed for use by trained applicators. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux Australia. Do not apply at temperatures below 10°C. Concrete should be fully cured; application over strongly alkaline surfaces will cause coating to yellow and will affect performance. Forced drying may limit adhesion and coating effectiveness. Soft and easily damaged substrates, such as limestone and sandstone, may require special preparation prior to treatment with Surfaceshield™ S. Highest protection is achieved after 7 days of curing. Dulux cannot guarantee that every type of graffiti can be completely removed. This technology cannot protect against graffiti agents which etch, or otherwise damage the substrate.
CLEAN UP	Clean all equipment with warm water and biodegradable waterbased detergent or degreaser after use.
CLEANING AND GRAFFITI REMOVAL	<ol style="list-style-type: none"> Soak the surface with hot water 60-80°C, keeping it wet and hot for approximately 15 minutes (This activation time will vary according to substrate and ambient temperature). Do not apply high pressure at this time, as the Surfaceshield™ S has not yet sufficiently activated and swelled. Check that the Surfaceshield™ S is completely activated. It should have a soft liquid gel-like feel when activated. Scrub a test area with a small brush; if graffiti is easy to remove, proceed with high pressure hot water cleaning. If Surfaceshield™ S is not completely activated and swelled, continue to apply hot water and re-check activation stage. Remove the Surfaceshield™ S with high-pressure hot water with the nozzle held at a 30° to 45° angle to the surface (never at right angles to the surface). The water temperature at the nozzle should be maintained to around 60-80°C. Adjust water pressure according to the surface. Once the graffiti has been removed, thoroughly wash and rinse the surface with hot water. On porous surfaces, re-apply Surfaceshield™ S while the surface is still damp.
OVERCOATING	Degrease with Gamlen CA 1 according to the data sheet. High-pressure water wash at 8.3 to 10.3 MPa (1,200-1,500 p.s.i.) to remove chalk and dust. Abrade surface to remove Surfaceshield™ S. Ensure the surface is prepared before reapplication.
SAFETY PRECAUTIONS	Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au
STORAGE	Store in a well-ventilated area. Keep containers closed at all times.
HANDLING	As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.
USING	Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spraying, users must comply with respective State Spray Painting regulations.
FLAMMABILITY	This product is non flammable.

COMPANY INFORMATION

Dulux Protective Coatings a division of
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING 20 litre pack & 1000L bulk container.
TRANSPORTATION WEIGHT 1.01 kg/litre
DANGEROUS GOODS Non Dangerous Goods

Surfaceshield is a trade mark.

Any advice, recommendation, information, assistance or service provided by Dulux Australia in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon Dulux by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Products can be expected to perform as indicated in this sheet so long as applications and application procedures are as recommended. Specific advice should be sought from Dulux for application in highly corrosive areas and for large projects to ensure proper performance.