

APP SURFACESHIELD™ S

Sacrificial Anti-Graffiti Surface Treatment

PC 951

- FEATURES**
- RESISTS SUBSTRATE PENETRATION OF MOST TYPES OF GRAFFITI
 - IDEAL FOR PROTECTING VERTICAL SURFACES
 - NO HARSH CHEMICALS REQUIRED TO REMOVE GRAFFITI
 - INVISIBLE AND VAPOUR PERMEABLE FILM
 - SAFE TO USE IN PUBLIC DURING APPLICATION, REMOVAL AND REAPPLICATION
 - DOES NOT CHANGE THE APPEARANCE OF THE ORIGINAL SURFACE
 - NATURAL AND BIODEGRADABLE

USES APP Surfaceshield S[®] is a microfilm surface treatment that is safely and efficiently applied onto a range of surfaces to provide protection against graffiti and normal atmospheric dirt and grime. It is water-based, non flammable, and meets the most stringent VOC regulations. APP Surfaceshield S allows for the safe, effective and economical removal of most types of graffiti, saving the surfaces from costly traditional methods of removing graffiti such as chemical stripping, abrading or scarifying. Once graffiti has been removed, APP Surfaceshield S can be economically reapplied and avoids the high cost of preparing and re-painting surfaces. APP Surfaceshield S can be used on all kinds of vertical natural and artificial stone facades, clinker, concrete, brick, metallic and aluminium facades and painted surfaces (depending on the coating type).

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Water based vegetable biopolymer	APPLICATION CONDITIONS	Min	Max
FINISH	Invisible	Air Temperature	5°C	30°C
COLOUR	Clear	Substrate Surface Temperature	5°C	35°C
COMPONENTS	One	Relative Humidity	40%	85%
SOLIDS BY VOLUME	Not Applicable	Wet film per coat (microns)	Not Applicable. Refer to typical systems guide for spreading rate.	
VOC LEVEL	<1 g/L	Dry film per coat (microns)		
FLASH POINT	Not applicable	SUITABLE SUBSTRATES	Vertical porous surfaces (clay bricks, concrete, natural stone). Non-porous surfaces (ferrous and non ferrous surfaces, painted or coated surfaces).	
POT LIFE	Not applicable	APPLICATION METHODS	Conventional, airless spray or air assisted spray, using low pressure.	
MIXING RATIO (V/V)	Single Pack Mix thoroughly in container prior to use.			
THINNER	Not Required			
PRODUCT CODE	992-H0048 APP Surfaceshield S			

Drying characteristics

Temperature	Humidity	Touch	Handle	Full Cure	Overcoat	
					Min	Max
25° C	50%	30 minutes	2 Hours	7 Days	30 minutes	Indefinite

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

PROCEDURE

SURFACE PREPARATION

1. The surface must be free from contaminants including grease, oil, dirt and other loosely adhering materials. Cleaning with an industrial detergent and hot water or with a high-pressure cleaner may be required for heavily soiled surfaces. Soft and easily damaged substrates, such as Limestone and some Sandstone, may require specialized preparation prior to treatment with APP Surfaceshield. Refer to your Dulux Protective Coatings Specifications Consultant for specific advice.
2. Surface should be pH neutral. Application over strongly alkali surfaces (such as new concrete) may cause yellowing of the coating but will not affect the coatings performance.
3. Where required, dampen the surface to be protected with water (for porous surfaces).

APPLICATION

4. Apply the first coat of APP Surfaceshield S so that a homogenous shiny film forms on the surface. The damp and shiny surface must dry evenly. Immediately re-apply APP Surfaceshield S to areas where shine suddenly disappears. The amount of APP Surfaceshield S required will vary in relation to the porosity of the surface being coated. Refer to the recommended system guide for a rough indication of the spreading rates required for the surface to be protected. Excessive application may result in the formation of runs, yellowing or delamination of the coating.
5. Once the coating is touch dry and no longer visible another coat may be applied.
6. Follow steps 4 and 5 for subsequent coats.

APP SURFACESHIELD S

GRAFFITI REMOVAL

- Using hot water, soak the surface so that it is kept dripping for approximately 2-4 minutes. At this stage it is important to heat and wet the surface. High pressure is not required and may be detrimental. Note: Aggressive hot water wash cleaning may soften and damage some coatings. Conduct a test area first before proceeding.
- Check that the APP Surfaceshield S has been correctly activated. It should have a soft liquid gel like feel when correctly activated.
- Peel off and remove the APP Surfaceshield S from the side with a high-pressure hot water unit. The wide, hot jet of water must always be on 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°C. Adjust water pressure according to the surface.
- Once the graffiti has been removed, thoroughly wash the surface with hot water.
- Re-apply APP Surfaceshield S for porous surfaces while the surface is still wet. Wait for the surface to dry before re-applying APP Surfaceshield S to non porous surfaces.

TYPICAL SYSTEMS

(The typical systems are offered as a guide only and are not to be used as a specification. It is recommended that the specific needs of a project be discussed with a Dulux Protective Coatings Consultant.)

SURFACE	PREPARATION GUIDE	SYSTEM		COVERAGE (m ² /L)
HARD, NON POROUS (ferrous and non ferrous surfaces, painted or coated surfaces)	Clean and degrease surface to remove contaminants.	1st Coat	APP Surfaceshield S	5-6
POROUS (clay bricks, natural stone, concrete)	Clean and degrease surface to remove contaminants. If required, wet the surface with water prior to application.	1st Coat	APP Surfaceshield S	3-4
		2nd Coat	APP Surfaceshield S	3-4
VERY POROUS (sandstone)	Clean and degrease surface to remove contaminants. Dampen the surface with water prior to application.	1st Coat	APP Surfaceshield HD (1-2 passes)*	5
		2nd Coat	APP Surfaceshield S	3-4
		1st Coat	APP Surfaceshield S	2-3
		2nd Coat	APP Surfaceshield S	2-3
		3rd Coat	APP Surfaceshield S	2-3
		1st Coat	APP Surfaceshield HD (1-2 passes)*	3-4
		2nd Coat	APP Surfaceshield S	2-3
		3rd Coat	APP Surfaceshield S	2-3

*Multiple passes need to be applied wet on wet.

SURFACE PREPARATION The surface must be free from contaminants including grease, oil, dirt and other loosely adhering materials.

APPLICATION

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 excess material being applied.

PRECAUTIONS

This Product Data Sheet should be used in conjunction with the relevant Coating Specification Guide. APP Surfaceshield S is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux[®] representative for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the express written consent of Dulux[®] Australia. Do not apply at temperatures below 5°C. Surface should be pH neutral. Application over strongly alkali surfaces (such as new concrete) may cause yellowing of the coating but will not affect the coatings performance. Excessively rapid drying can limit coating effectiveness. Soft and easily damaged substrates, such as Limestone and some Sandstone, may require specialized preparation prior to treatment with APP Surfaceshield. Do not apply in conditions outside those recommended on this data sheet. Dulux[®] cannot guarantee that every type of graffiti can be completely removed. Highest protection is achieved after 7 days of curing. Do not use this product for this application without reference to a Dulux[®] Protective Coatings Specifications Consultant for specific advice.

CLEAN UP

Clean all equipment with warm water and biodegradable waterbased detergent or degreaser.

OVERCOATING

The surface must be free of oil, grease and other contaminants. High-pressure water wash at 8.3 to 10.3 MPa (1,200 – 1,500 p.s.i.) to remove APP Surfaceshield S. Ensure the surface is sufficiently prepared before reapplication.

SAFETY PRECAUTIONS

Read Data Sheet, Safety Data Sheet and any precautionary labels on containers.

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 spray painting, users should comply with the provisions of the respective State Spray Painting Regulations.

FLAMMABILITY

This product is non flammable.

SAFETY DATA SHEET is available from Dulux Customer Service (Phone 132 377)

www.duluxprotectivecoatings.com.au

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PACKAGING	Available in a 22 litre pack
TRANSPORTATION WEIGHT	1.0 kg/litre
DANGEROUS GOODS	Non Dangerous Goods

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