

APP SURFACESHIELD™ HD

Non-Sacrificial Anti-Graffiti Vertical Surface Treatment

PC 952

- FEATURES**
- IDEAL FOR PROTECTING VERTICAL SURFACES
 - BARRIER AGAINST WATER, GREASY SUBSTANCES OR GRAFFITI
 - RESISTS SUBSTRATE PENETRATION OF MOST TYPES OF GRAFFITI
 - REDUCES SURFACE TENSION
 - ALLOWS FAST AND COST EFFECTIVE REMOVAL OF GRAFFITI
 - INVISIBLE AND VAPOUR PERMEABLE FILM
 - DOES NOT CHANGE THE APPEARANCE OF THE ORIGINAL SURFACE
 - HARD WEARING PROTECTION

USES APP Surfaceshield HD (heavy duty) is a water-based solution used to protect vertical surfaces from damage caused by graffiti and pollution as well as meeting the most stringent VOC regulations. APP Surfaceshield HD is a non-sacrificial coating and hence long term surface protection is achieved after a single application. Its non film-forming characteristics mean that APP Surfaceshield HD penetrates even the smallest pores without modifying the optical appearance of the substrate. Graffiti on surfaces protected with APP Surfaceshield HD can be removed using hot water pressure, making it the ideal solution where economic maintenance cleaning is desired. The use of graffiti removers may also be required in combination with hot water pressure cleaning for the removal of stubborn graffiti.

APP Surfaceshield HD can be used to protect a wide variety of porous materials used in construction, retail, municipality, hospital and urban environments. Some uses include protecting walls, facades and roofs.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Water based co-polymer	APPLICATION CONDITIONS	Min	Max
FINISH	Invisible	Air Temperature	5°C	30°C
COLOUR	Clear	Substrate Surface Temperature	5°C	35°C
		Relative Humidity	40%	85%
COMPONENTS	One	Wet film per coat (microns)	Not Applicable. Refer to typical systems guide for spreading rate.	
SOLIDS BY VOLUME	Not Applicable	Dry film per coat (microns)		
VOC LEVEL	<1 g/L	SUITABLE SUBSTRATES	Vertical porous masonry surfaces (clay bricks, natural stone, concrete).	
FLASH POINT	Not applicable	TOPCOATS	APP Surfaceshield S can be used for extra protection.	
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-H0049 APP Surfaceshield HD			

Drying characteristics

Temperature	Humidity	Full Cure	Recoat Times	
			Minimum	Maximum
25° C	50%	7 Days	24 Hours	Indefinite

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

PROCEDURE

PREPARATION

1. Any previous coatings or sealants must be removed prior to application of APP Surfaceshield HD. 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.

APPLICATION

2. Surface should be pH neutral. Application over strongly alkali surfaces (such as new concrete) may affect the performance of APP Surfaceshield HD.
3. Ensure the surface is dry before applying APP Surfaceshield HD. The substrate pores need to be substantially dry and free of water to ensure maximum penetration and coating of APP Surfaceshield HD.
4. Apply one or two layers of APP Surfaceshield HD to the surface being protected using low pressure spray. The amount of APP Surfaceshield HD required will vary in relation to the porosity of the surface being coated. Subsequent layers must be applied while the coating is still wet. Once allowed to dry no further material can be added. Refer to the recommended system guide for a rough indication of the spreading rates required for the surface to be protected.

APP SURFACESHIELD HD

GENERAL CLEANING AND GRAFFITI REMOVAL

- 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. 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.
- For areas polluted with vegetable oil, motor oil, grease or paint, the use of cleaning agents or graffiti removers may be required.

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)
		Coat	Product	Passes	
POROUS (clay bricks, natural stone, concrete)	Clean and degrease surface to remove contaminants.	1st Coat	APP Surfaceshield HD	(1-2 passes)*	5
		1st Coat	APP Surfaceshield HD	(1-2 passes)*	5
		2nd Coat	APP Surfaceshield S	(1 pass)	3-4
VERY POROUS (sandstone)	Clean and degrease surface to remove contaminants.	1st Coat	APP Surfaceshield HD	(2-3 passes)*	3-4
		1st Coat	APP Surfaceshield HD	(2-3 passes)*	3-4
		2nd Coat	APP Surfaceshield S	(1 pass)	2-3
		3rd Coat	APP Surfaceshield S	(1 pass)	2-3

*Multiple passes need to be applied wet on wet.

SURFACE PREPARATION

Any previous coatings or sealants must be removed prior to application of APP Surfaceshield HD. Any pre existing coatings will limit the effectiveness of APP Surfaceshield HD. The surface must be dry and 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. Avoid flooding the surface.

PRECAUTIONS

This Product Data Sheet should be used in conjunction with the relevant Coating Specification Guide. APP Surfaceshield HD 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. Where multiple passes are required the product must be applied wet on wet. Once it has dried additional coats can no longer be applied. Excessively rapid drying can limit the effectiveness of the product. 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 loosely adhering chalk and dust. Abrasion may be required depending on surface condition. Thorough abrasion will be required to remove existing APP Surfaceshield HD before the system can be re-applied.

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

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 coastal areas and for large projects to ensure proper performance.