

# APP SURFACESHIELD™ HD-H

Non-Sacrificial Horizontal Surface Treatment

PC 953

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

**USES** APP Surfaceshield HD-H (horizontal) is a water-based solution used to protect horizontal surfaces from general contaminants and facilitate easier cleaning as well as meeting the most stringent VOC regulations. APP Surfaceshield HD-H 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-H penetrates even the smallest pores without modifying the optical appearance of the substrate. Contaminants on surfaces protected with APP Surfaceshield HD-H can be removed using water pressure, making it the ideal solution where economic maintenance cleaning is desired.

APP Surfaceshield HD-H can be used to protect a wide variety of porous materials used in construction, retail, municipality, hospital and urban environments. Some uses include protecting pavers, stairs, sidewalks, non-glazed tile floors and stone floors.

## TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Water based co-polymer	<b>APPLICATION CONDITIONS</b>	Min	Max
<b>FINISH</b>	Invisible	Air Temperature	5°C	30°C
<b>COLOUR</b>	Clear	Substrate Surface Temperature	5°C	35°C
		Relative Humidity	40%	85%
<b>COMPONENTS</b>	One	Wet film per coat (microns)	Not Applicable. Refer to typical systems guide for spreading rate.	
<b>SOLIDS BY VOLUME</b>	Not Applicable	Dry film per coat (microns)		
<b>VOC LEVEL</b>	<1 g/L	<b>SUITABLE SUBSTRATES</b>	Horizontal porous masonry surfaces (clay bricks, natural stone, concrete).	
<b>FLASH POINT</b>	Not applicable	<b>APPLICATION METHODS</b>	Conventional, airless spray or air assisted spray, using low pressure.	
<b>POT LIFE</b>	Not applicable			
<b>MIXING RATIO (V/V)</b>	Single Pack Mix thoroughly in container prior to use.			
<b>THINNER</b>	Not Required			
<b>PRODUCT CODE</b>	992-H0050 APP Surfaceshield HD-H			

### Drying characteristics

Temperature	Humidity	Foot Traffic	Vehicle Traffic
25° C	50%	4 Hours	24 Hours

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. Any previous coatings or sealants must be removed prior to application of APP Surfaceshield HD-H. 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. The surface should be pH neutral. Application over strongly alkaline surfaces (such as new concrete) may limit the coatings effectiveness.
  3. Ensure the surface is dry before applying APP Surfaceshield HD-H. The substrate pores need to be substantially dry and free of water to ensure maximum penetration and coating of APP Surfaceshield HD-H.
  4. Apply one or two layers of APP Surfaceshield HD-H to the surface being protected using low pressure. The amount of APP Surfaceshield HD-H 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-H

## GENERAL CLEANING AND GRAFFITI REMOVAL

1. 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.
2. 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 <sup>2</sup> /L)
		1st Coat	APP Surfaceshield HD-H (1-2 passes)*	
POROUS (clay bricks, natural stone, concrete)	Clean and degrease surface to remove contaminants.	1st Coat	APP Surfaceshield HD-H (1-2 passes)*	6
VERY POROUS (sandstone)	Clean and degrease surface to remove contaminants.	1st Coat	APP Surfaceshield HD-H (2-3 passes)*	3-4

\*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-H. Any pre existing coatings will limit the effectiveness of Surfaceshield HD-H. 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-H 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<sup>®</sup> 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<sup>®</sup> 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 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<sup>®</sup> cannot guarantee that every type of contamination 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<sup>®</sup> 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-H 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](http://www.duluxprotectivecoatings.com.au)

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PACKAGING	Available in a 20 litre pack and 1000L bulk containers
TRANSPORTATION WEIGHT	1.01 kg/litre
DANGEROUS GOODS	Non Dangerous Goods

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