

# SURFACESHIELD™ HD-H

## Non-Sacrificial Horizontal Surface Treatment

PC 953

- FEATURES**
- PROTECTS HORIZONTAL SURFACES
  - BARRIER AGAINST WATER, OILY SUBSTANCES AND CHEWING GUM
  - RESISTS SUBSTRATE PENETRATION OF MOST TYPES OF CONTAMINANTS
  - ALLOWS FAST AND COST EFFECTIVE REMOVAL OF CONTAMINANTS
  - LOW VOC
  - VAPOUR PERMEABLE FILM
  - INVISIBLE – DOES NOT CHANGE THE APPEARANCE OF THE ORIGINAL SURFACE

**USES** Surfaceshield™ HD-H (horizontal) is a water-based, low VOC solution used to protect horizontal surfaces from general contaminants including chewing gum, and facilitate easier cleaning. Surfaceshield™ HD-H is a non-sacrificial coating allowing repeated cleaning after one application. Surfaceshield™ HD-H is non film-forming; it is a surface treatment that penetrates the porous surface providing an invisible hydrophobic layer. Graffiti on surfaces treated with Surfaceshield™ HD-H can be removed using a combination of graffiti removal agents and hot water pressure. 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, footpaths, non-glazed tile floors and stone floors.

### TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Water based co-polymer	<b>APPLICATION CONDITIONS</b>		
<b>FINISH</b>	Invisible		Min	Max
<b>COLOUR</b>	Clear colourless	<b>Air Temp.</b>	5°C	30°C
		<b>Substrate Temp.</b>	5°C	35°C
		<b>Relative Humidity</b>	40%	85%
		<b>Concrete Moisture</b>		<10%
<b>COMPONENTS</b>	One	<b>FILM THICKNESS (MICRONS)</b>		
<b>VOLUME SOLIDS</b>	Not applicable		Min	Max
<b>VOC LEVEL</b>	<1 g/L	<b>Wet film per coat (µm)</b>	Not applicable. Refer to Typical Systems guide for spreading rate	
<b>FLASH POINT</b>	Non flammable	<b>Dry film per coat (µm)</b>	Not applicable. Refer to Typical Systems guide for spreading rate	
<b>POT LIFE</b>	Not applicable	<b>SUITABLE SUBSTRATES</b>	Horizontal porous masonry surfaces (clay bricks, natural stone, concrete).	
<b>MIXING RATIO V/V</b>	Single Pack	<b>SUITABLE TOPCOATS</b>	Not applicable	
<b>THINNER</b>	Do not thin	<b>APPLICATION METHODS</b>	Conventional, airless spray or air assisted spray, using low pressure.	
<b>PRODUCT CODE</b>	992-H0050 Surfaceshield HD-H			

### DRYING CHARACTERISTICS

Temperature	Humidity	Full Cure	Foot Traffic	Vehicle Traffic
25° C	50%	7 Days	4 Hours	24 Hours

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™ HD-H. Refer to your Dulux Protective Coatings Specifications Consultant for specific advice.
2. Concrete should be fully cured. Application over strongly alkali surfaces (such as new concrete) will affect the performance of Surfaceshield™ HD-H.
3. Ensure the surface is dry before applying Surfaceshield™ HD-H. The substrate pores need to be substantially dry and free of water to ensure maximum penetration and coating of Surfaceshield™ HD-H.
4. Apply one or two layers of Surfaceshield™ HD-H to the surface being protected using low pressure. The amount of 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.

**IMPORTANT NOTE:** This product is to be applied by a specialist applicator suitably trained in the application of this product. The applicator is required to record application works and be able to remove graffiti from affected areas. Deviation from this requirement may adversely affect graffiti management.

### SPREADING RATE 6 square metres per litre in 1-2 passes

assuming no losses

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

# SURFACESHIELD™ HD-H

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

\*Multiple passes must be applied wet on wet

<b>SURFACE PREPARATION</b>	<b>Concrete:</b> 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. Fill any large cracks or voids using Luxepoxy® Filler.
<b>APPLICATION</b>	Mix thoroughly using a power mixer until the contents are uniform.
<b>BRUSH/ROLLER</b>	Suitable for small areas only. Apply even coats of the material to the prepared surface.
<b>CONVENTIONAL SPRAY</b>	Apply in multiple wet coats overlapping each pass 50%.
<b>AIRLESS SPRAY</b>	Standard airless spray equipment. Tips between 0.17mm and 0.21mm are suggested to avoid excess material being applied. Avoid flooding the surface.
<b>PRECAUTIONS</b>	This Product Data Sheet should be used in conjunction with the relevant Coating Specification Guide. 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® Consultant 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 coating effectiveness. Soft and easily damaged substrates, such as limestone and some sandstone, may require specialized preparation prior to treatment with Surfaceshield™ HD-H. Do not apply in conditions outside those recommended on this data sheet. Dulux® 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 a Dulux® Protective Coatings project-specific specification.
<b>CLEAN UP</b>	Clean all equipment with warm water and biodegradable waterbased detergent or degreaser after use.
<b>CLEANING</b>	<ol style="list-style-type: none"> <li>Hot water power washing is the most effective and fastest cleaning method. When power washing, a continuous flow of hot water (&gt;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 10 cm should be maintained. Avoid higher pressure water washing as this causes abrasion and may compromise the protective treatment.</li> <li>For areas polluted with vegetable oil, motor oil, grease or paint, the use of cleaning agents or graffiti removers may be required.</li> </ol>
<b>OVERCOATING</b>	Degrease with Gamlen CA 1 according to the data sheet. Test adhesion of existing coating by standard cross hatch adhesion test. If the coating fails, remove it. High-pressure water wash at 8.3 to 10.3 MPa (1,200-1,500 p.s.i.) to remove chalk and dust. Thorough abrasion will be required to remove existing Surfaceshield™ HD-H before reapplication.
<b>SAFETY PRECAUTIONS</b>	<b>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or <a href="http://www.duluxprotectivecoatings.com.au">www.duluxprotectivecoatings.com.au</a></b>
<b>STORAGE</b>	Store in a well-ventilated area. Keep containers closed at all times.
<b>HANDLING</b>	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.
<b>USING</b>	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 their respective State Spray Painting regulations.
<b>FLAMMABILITY</b>	This product is non flammable.

## COMPANY INFORMATION

Dulux Protective Coatings a division of

DuluxGroup (Australia) Pty Ltd  
1956 Dandenong Road, Clayton 3168  
A.B.N. 67 000 049 427

DuluxGroup (New Zealand) Pty Ltd  
150 Hutt Park Road, Lower Hutt, NZ  
A.B.N. 55 133 404 118

## PACKAGING, TRANSPORT AND STORAGE

**PACKAGING** Available in 20 litre packs and 1000 litre bulk containers

**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.