

SURFACESHIELD™ HD

Non-Sacrificial Anti-Graffiti Surface Treatment

PC 952

- FEATURES**
- WATERBASED - LOW VOC and LOW ODOR SURFACE TREATMENT HELPS PROTECT CONCRETE, BRICK, AND OTHER POROUS MASONRY SURFACES FROM GRAFFITI
 - BARRIER AGAINST BOTH WATER BASED, OIL BASED STAINS AND MOST TYPES OF GRAFFITI

USES Surfaceshield™ HD (Heavy Duty) is a water-based clear solution for the protection of masonry surfaces against graffiti. Surfaceshield™ HD is a non-sacrificial coating allowing repeated cleaning. Surfaceshield™ HD is non-film-forming; it penetrates the porous surface creating a hydrophobic and oleophobic layer. Graffiti on surfaces treated with Surfaceshield™ HD can be removed using a combination of graffiti removal agents and pressure washing with hot water. Surfaceshield™ HD can be used to protect a wide variety of porous masonry materials used in construction, infrastructure, retail, municipality, and public spaces.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION		APPLICATION CONDITIONS		
CLASSIFICATION	Waterborne co-polymer		Min	Max
FINISH	Invisible			
COLOUR	Clear colourless	Air Temp.	5°C	30°C
		Substrate Temp.	5°C	30°C
		Relative Humidity	40%	85%
COMPONENTS	One	FILM THICKNESS (MICRONS)		
VOLUME SOLIDS	Not applicable		Min	Max
VOC LEVEL	<75 g/L	Wet film per coat (µm)	Not applicable. Refer to typical systems guide for spreading rate	
FLASH POINT	Nonflammable	Dry film per coat (µm)		Recommended
POT LIFE	Not applicable			
MIXING RATIO V/V	Single Pack	SUITABLE SUBSTRATES	Concrete, bricks, natural stone and other porous masonry surfaces	
THINNER	Do not thin	SUITABLE TOPCOATS	Surfaceshield™ HD	
RECOMMENDED GRAFFITI REMOVER	Selleys® Muck-off®	APPLICATION METHODS	Brush & roll, conventional air spray & low pressure spray.	
PRODUCT CODES	992-H0265 Surfaceshield™ HD			

DRYING CHARACTERISTICS

Temperature	Humidity	Full Cure	OVERCOAT	
			Min	Max*
25° C	50%	7 Days	24 Hours	Extended

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

*Extended max overcoat – This product is readily recoatable with itself if the surface to be coated is clean, dry and free from contaminants.

PROCEDURE

PREPARATION AND APPLICATION	<ol style="list-style-type: none"> 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 to remove persistent deposits. Soft and easily damaged substrates, such as limestone and some sandstone, may require specialized preparation prior to treatment with Surfaceshield™ HD. Refer to your Dulux Protective Coatings Specifications Consultant for specific advice. 2. Concrete should be more than 28 days old. Application over strongly alkaline surfaces (such as new concrete) will affect the performance of Surfaceshield™ HD. 3. The surface can be either dry or Saturated Surface Dry (SSD)* before applying Surfaceshield™ HD. 4. Apply one or two layers of Surfaceshield™ HD to the surface being protected using low pressure spray. It is recommended that application of this product starts at the bottom of a vertical substrate and then working the product up to the top. The amount of Surfaceshield™ HD required will increase with increasing porosity of the surface being coated. Subsequent layers can be applied when the coating becomes touch dry. Refer to the recommended system guide for an indication of the spreading rates required for the surface to be protected. Insufficient application of Surfaceshield™ HD will dramatically affect its performance and ability to protect the substrate. <p>* SSD is defined as the concrete substrate is darkened by water but there is no pooling of water or heavy runoff of water on the concrete surface</p>
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SPREADING RATE 3 – 5 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

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 substrate to remove contaminants, including bond breakers	1 st Coat Surfaceshield™ HD	2 passes*	5
POROUS (clay bricks, natural stone, concrete)	Exterior	Clean and degrease substrate to remove contaminants	1 st Coat Surfaceshield™ HD	2 passes*	4
			2 nd Coat Surfaceshield™ HD	2 passes*	4
VERY POROUS	Exterior	Not Recommended			

*Multiple passes must be applied wet on wet

SURFACE PREPARATION	Concrete: Allow new concrete to cure a minimum of 28 days at 24°C. To minimise the risk of moisture interference, Dulux recommends the following two tests be performed prior to coating – ASTM F2659 – 10 “Standard Guide for Preliminary Evaluation of Comparative Moisture Condition of Concrete, Gypsum Cement and Other Floor Slabs and Screeds Using a Non-Destructive Electronic Moisture Meter”(moisture content not to exceed 6%) and ASTM D 4263 “Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method” (no visible moisture present). Remove curing compounds, oil, grease and other contaminants. Remove all laitance and loose material. Any pre-existing coatings or contaminants will reduce the effectiveness of Surfaceshield™ HD.
APPLICATION BRUSH/ROLLER	Mix thoroughly using a power mixer before use. Suitable for small areas only. Apply even coats of the material to the prepared surface. A brush or roller may be used to redistribute material in areas that have become oversaturated with Surfaceshield HD during initial spray application. Roller: Use shed resistant synthetic woven covers, 4 mm to 8 mm nap thickness. Brush: Use high quality natural or synthetic bristle brushes.
LOW PRESSURE SPRAY	Apply using a low-pressure rotary or gear pump sprayer with a fan tip that allows for application of the product at 20-40 PSI (1.38-2.76 BAR). A commercial grade pump-up spray tank equipped with a fan tip is also acceptable. NOTE: For porous surfaces such as sandstone, a process of low-pressure spray and back roll using a shed resistant 5mm knap cover is recommended per coat applied.
PRECAUTIONS	Surfaceshield™ HD is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Technical Data Sheet contact your nearest Dulux® Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document. Do not apply at temperatures below 5°C. Where multiple passes are required the product must be applied wet on wet. Excessively rapid drying can limit product effectiveness. Soft and easily damaged substrates, such as limestone and some sandstone, may require specialized preparation prior to treatment with Surfaceshield. Do not apply in conditions outside those recommended on this data sheet. Dulux® cannot guarantee every type of graffiti can be completely removed. This technology may not be able to protect against graffiti agents which etch the surface. Highest graffiti protection is achieved after 7 days of curing. Do not use this product for this application without reference to a Dulux® Protective Coatings project-specific specification. Do not apply on marble surfaces.
CLEAN UP	Clean all equipment with potable water after use.
CLEANING AND GRAFFITI REMOVAL	A combination of graffiti removal agents and hot water power washing is the most effective and fastest cleaning method. The recommended graffiti removal product is Selleys® Muck-off®. 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 (940 PSI) and a spray distance of 10cm should be maintained. Avoid higher pressure water washing as this causes abrasion and may compromise the protective treatment.
OVERCOATING WITH SELF	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.
SAFETY PRECAUTIONS	Read Technical 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 their respective Local Spray-Painting regulations.
FLAMMABILITY	This product is nonflammable.

COMPANY INFORMATION

Dulux Protective Coatings a division of
 DuluxGroup (Australia) Pty Ltd DuluxGroup (New Zealand) Pty Ltd
 1956 Dandenong Road, Clayton 3168 150 Hutt Park Road, Lower Hutt, NZ
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING Available in 15 litre packs
TRANSPORTATION WEIGHT 1.07 kg/litre
DANGEROUS GOODS Non Dangerous Goods

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Surfaceshield is a trade mark of DuluxGroup (Australia) Pty Ltd.

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