

METALSHIELD® ETCH PRIMER

Ready For Use Universal Etch Primer

LI 009

- FEATURES**
- READY FOR USE
 - RAPID DRY AND FAST RECOAT
 - IDEAL FOR PRIMING ALL FERROUS AND NON-FERROUS METALS
 - SUITABLE FOR APPLICATION DIRECT TO FIBREGLASS SURFACES
 - WIDE RANGE OF TOPCOAT TYPES CAN BE USED
 - TOUCHUP SPRAYPAKS AVAILABLE

USES METALSHIELD® ETCH PRIMER is a fast-cure etch primer for shop or site application over suitably prepared metal substrates, ready to overcoat in only 10 minutes under normal conditions. METALSHIELD® ETCH PRIMER is ideal where high adhesion, fast turn around and single pack convenience are required.

METALSHIELD® ETCH PRIMER can be used over appropriately prepared aluminium, zinc coated steel, stainless steel, mild steel and other non-ferrous metals. Also suitable for application direct to fibreglass surfaces. Intended for application direct to prepared metal surfaces or as a spot primer for exposed metal/fibreglass surfaces only.

SPECIFICATIONS AS/NZS 3750.17 Type 1

RESISTANCE GUIDE

WEATHERABILITY	Will chalk on exterior exposure. Use a weatherable topcoat.	SOLVENTS	Resists splash and spillage of aliphatic and aromatic hydrocarbons
HEAT RESISTANCE	Up to 65°C dry heat	WATER	Resists rain and condensation when suitably topcoated. Not recommended for permanently damp or immersed exposure
SALTS	Unaffected by splash and spillage of most salt solutions	ALKALIS	Suitable for splash and spillage exposure to weak alkalis with suitable topcoat
ACIDS	Suitable for splash and spillage exposure to weak acids with suitable topcoat	ABRASION	Fair

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Ready for use universal etch primer	APPLICATION CONDITIONS			
FINISH	Low Sheen		Min	Max	
COLOUR	Black, Light Grey and Medium Grey. Touchup spraypaks also available.	Air Temp.	10°C	40°C	
		Substrate Temp.	10°C	40°C	
		Relative Humidity		85%	
COMPONENTS	One	COATING THICKNESS (MICRONS)			
VOLUME SOLIDS	8%		Min	Max	Recommended
VOC LEVEL	<750 g/L	Wet film per coat (µm)	125	188	125
FLASH POINT	<0°C	Dry film per coat (µm)	10	15	10
POT LIFE	Not applicable	SUITABLE SUBSTRATES	Mild steel, aluminium, galvanized steel, stainless steel and fibreglass		
MIXING RATIO V/V	Single pack	TOPCOATS	Single and two pack Dulux® topcoats		
THINNER – SPRAY	965-H0011 Metalshield® Etch Primer Thinner	APPLICATION METHODS	Conventional spray and HVLP spray		
PRODUCT CODE	462-00070 Black 462-89931 Light Grey 462-89932 Medium Grey				

DRYING CHARACTERISTICS AT 10 µm DRY FILM THICKNESS*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max
25° C	50%	10 Minutes	30 Minutes	45 Minutes	10 Minutes	Extended

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

SPREADING RATE 8.0 square metres per litre equals 10 µm dry film thickness

ASSUMING NO LOSSES

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

METALSHIELD® ETCH PRIMER

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	DFT (µm)
STEEL – NEW	Low corrosivity (AS2312.1 Cat C1-2)	Power tool clean AS1627.2 Abrasive blast AS1627.4	1 st Coat Metalshield® Etch Primer 2 nd Coat Metalshield® Premium Enamel	10 µm 50 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C1-2)	Power tool clean AS1627.2 Abrasive blast AS1627.4	1 st Coat Metalshield® Etch Primer 2 nd Coat Luxathane® HPX	10 µm 50 µm
NON FERROUS METALS AND FIBREGLASS	Exterior/Interior	Clean, degrease and abrade surface	1 st Coat Metalshield® Etch Primer 2 nd Coat Metalshield® Premium Enamel	10 µm 50 µm

NOTE: If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity

SURFACE PREPARATION	<p>Steel: Round off all rough welds, sharp edges and remove weld spatter. Remove grease, oil and other contaminants in accordance with AS1627.1. Degrease with Gamlen CA 1 (a free-rinsing, alkaline detergent) according to the manufacturer's written instructions and all safety warnings. Abrasive blast clean to a minimum of AS1627.4 Class 2.5 with a blast profile of 40 – 70 microns. Remove all dust brushing or vacuum.</p> <p>Steel where abrasive blast cleaning is not viable: Rust, mill scale, oxide deposits and old paint films on metal surfaces must be removed by power tool cleaning according to AS1627.2 Class 2. Coating performance is proportional to the degree of surface preparation.</p> <p>Non-ferrous metals: Round off all sharp edges. Remove grease, oil and other contaminants in accordance with AS1627.1. Whip blast with fine non-metallic media such as plastic, glass or garnet to provide a key. Remove all dust with compressed air. Alternatively, degrease and abrade the surface with a non-metallic abrasive pad wetted with Gamlen CA 1 (a free-rinsing, alkaline detergent) and water. Rinse thoroughly with fresh potable water.</p>												
APPLICATION	Mix thoroughly using a power mixer until the contents are uniform. Remix thoroughly before application.												
BRUSH/ROLLER	Recommended only for spot patching on rivets, seams, etc.												
CONVENTIONAL SPRAY	Thinning not required but up to 50ml/litre with Metalshield® Etch Primer Thinner (965-H0011) may be used to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.												
	<table border="0"> <tr> <td>Typical Set-up</td> <td>Graco AirPro:</td> <td>1.4mm (239542)</td> </tr> <tr> <td></td> <td>Pressure at Triton 308:</td> <td>70-100 kPa (10-15 p.s.i.)</td> </tr> <tr> <td></td> <td>Pressure at Gun:</td> <td>380-410 kPa (55-60 p.s.i.)</td> </tr> <tr> <td></td> <td>HVLP:</td> <td>1.4 Fluid Tip</td> </tr> </table>	Typical Set-up	Graco AirPro:	1.4mm (239542)		Pressure at Triton 308:	70-100 kPa (10-15 p.s.i.)		Pressure at Gun:	380-410 kPa (55-60 p.s.i.)		HVLP:	1.4 Fluid Tip
Typical Set-up	Graco AirPro:	1.4mm (239542)											
	Pressure at Triton 308:	70-100 kPa (10-15 p.s.i.)											
	Pressure at Gun:	380-410 kPa (55-60 p.s.i.)											
	HVLP:	1.4 Fluid Tip											
AIRLESS SPRAY	Not recommended												
TOUCH UP SPRAYPAKS	Refer to the details located on the back of the Touchup Spraypak aerosol can. Note – a slight colour variation may occur compared to the standard product due to film build, application methods and technique.												
PRECAUTIONS	This is an industrial product designed for use by experienced Protective Coatings 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 written consent of Dulux® Australia. Do not apply at temperatures below 5°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Do not apply over scale bearing steel. Abrasive blast cleaned surfaces must be primed within 4 hours. Excessive film thickness should be avoided as this may result in delamination.												
CLEAN UP	Clean all equipment with Metalshield® Etch Primer Thinner (965-H0011) immediately after use.												
OVERCOATING	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. Abrade surface to provide a good key for the new coating.												
SAFETY PRECAUTIONS	Read 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 as required for a flammable liquid Class 3 in a bonded area under cover. Store in well-ventilated area away from sources of heat or ignition. 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 must be worn while handling and using. Always wash hands before smoking, eating, drinking or using the toilet.												
USING	Use with good ventilation and avoid inhalation of spray mists and fumes. When spraying, wear combined organic vapour/particulate respirator. Users must always comply with their respective State Spray Painting Regulations at all times.												
FLAMMABILITY	This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO ₂ or dry chemical powder. On burning will emit toxic fumes.												
WELDING	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.												

COMPANY INFORMATION

PACKAGING, TRANSPORT AND STORAGE

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	Available in 1, 4 and 15 litre cans Available in 300g Aerosols
TRANSPORTATION WEIGHT	0.88 kg/litre
DAANGEROUS GOODS	Class 3 UN 1263 Aerosols Class 2 UN 1950

Dulux, Luxathane and Metalshield are registered trade marks of DuluxGroup (Australia) Pty Ltd.

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.