

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

Has passed weld through criteria via the following test methods - 1) BS EN ISO 17652-2: 2003 (Guideline): Welding - Test for Shop Primers in relation to welding and allied processes - Part 2: Welding properties of shop primers. 2) DNVGL-CP-0109 (Acceptance Criteria): Shop primers for corrosion of protection of steel plates and sections.

Tested in accordance with OSHA ID 125G, Metal and Metalloid Particulates in Workplace Atmospheres (ICP Analysis), OSHA Analytical Method Manual, Second Edition & Test Method 1501, Hydrocarbons, Aromatic NIOSH Manual of Analytical Methods, Fourth Edition. Testing resulted in less than 10% of permissible exposure levels (PEL) being detected. An exposure level of 50% PEL or greater is known as an actionable level.

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	12%			Min	Max
VOC LEVEL	<750 g/L				Recommended
FLASH POINT	<0°C		Wet film per coat (µm)	80	120
POT LIFE	Not applicable		Dry film per coat (µm)	10	15
MIXING RATIO V/V	Single pack				10
THINNER – SPRAY	965-H0011	Metalshield® Etch Primer Thinner	SUITABLE SUBSTRATES	Mild steel, aluminium, galvanized steel, stainless steel and fibreglass	
PRODUCT CODE	462-00070	Black	TOPCOATS	Single and two pack Dulux® topcoats	
	462-89931	Light Grey	APPLICATION METHODS	Conventional spray and HVLP spray	
	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
ASSUMING NO LOSSES**12.5 square metres per litre equals 10 µm dry film thickness**

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

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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	1 st Coat	Metalshield® Etch Primer	10 µm
		Abrasive blast AS1627.4	2 nd Coat	Metalshield® Premium Enamel	50 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C1-2)	Power tool clean AS1627.2	1 st Coat	Metalshield® Etch Primer	10 µm
		Abrasive blast AS1627.4	2 nd Coat	Luxathane® HPX	50 µm
NON FERROUS METALS AND FIBREGLASS	Exterior/Interior	Clean, degrease and abrade surface	1 st Coat	Metalshield® Etch Primer	10 µm
			2 nd Coat	Metalshield® Premium Enamel	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	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. 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. 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.		
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%. 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 bunded 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, CO2 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 427DuluxGroup (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** 1.17 kg/litre (Light Grey)**DANGEROUS GOODS** Class 3 UN 1263
Aerosols Class 2 UN 1950

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