

METALSHIELD[®] ETCH Primer

Ready For Use Universal Etch Primer

LI009

- FEATURES**
- READY FOR USE
 - NON TOXIC ANTI CORROSIVE PIGMENTATION
 - RAPID DRY AND FAST RECOAT
 - IDEAL FOR PRIMING MILD STEEL, ZINC, ALUMINIUM, STAINLESS STEEL AND OTHER 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 may be used as a shop or site primer over suitably prepared substrates for atmospheric service with overcoating in 10 minutes under standard conditions. It is the preferred choice where added adhesive properties are required from a single pack primer. METALSHIELD[®] ETCH Primer can be used over appropriately prepared aluminium, galvanised or 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 metal surfaces or as a spot primer for exposed metal/fibreglass surfaces only.

SPECIFICATIONS AS/NZS 3750.17 Type 1

RESISTANCE GUIDE

HEAT RESISTANCE	Up to 65°C dry heat.	ALKALIS	Suitable for splash and spillage exposure to weak alkalis with suitable topcoat.
WEATHERABILITY	On exterior exposure some chalking may also occur. This will not detract from the protective properties of the coating. Use a weatherable topcoat if required for appearance.	SALTS	Unaffected by splash and spillage of most salt solutions.
SOLVENTS	Resists splash and spillage of aliphatic and aromatic hydrocarbons.	WATER	Resists rain and condensation when suitably topcoated. Not recommended for permanently damp or immersed exposure.
ACIDS	Suitable for splash and spillage exposure to weak acids with suitable topcoat.	ABRASION	Fair for a single pack coating.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Ready for use universal etch primer		APPLICATION CONDITIONS	Min	Max	
FINISH	Low Sheen		Air Temperature	10°C	45°C	
COLOUR	Black, Light Grey and Medium Grey. Touchup spraypaks also available.		Substrate Surface Temperature	5°C	45°C	
COMPONENTS	One		Relative Humidity		85%	
SOLIDS BY VOLUME	8%			Min	Max	Recom.
VOC LEVEL	<750 g/L		Wet film per coat (microns)	125	190	125
FLASH POINT	<0°C		Dry film per coat (microns)	10	15	10
POT LIFE	Not applicable					
MIXING RATIO (V/V)	Single pack		SUITABLE SUBSTRATES	Prepared mild steel, aluminium, galvanized steel, stainless steel and fibreglass.		
THINNER	965-H0011	Metalshield [®] Etch Primer Thinner	TOPCOATS	Most single and two pack topcoats.		
PRODUCT CODE	466-00070	Black	APPLICATION METHODS	Conventional spray, HVLP.		
	466-89931	Light Grey				
	466-89932	Medium Grey				

Drying characteristics at 10 microns dry film thickness

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

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

TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD

A spreading rate of 8.0 sq. metres per litre corresponds to 10 microns dry film thickness assuming no losses. Practical spreading rates will vary depending on such factors as method and conditions of application and surface roughness.

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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		DRY FILM THICKNESS
STEEL	Hand or Power tool clean AS1627.2 St 3 Abrasive blast AS1627.4 Class 1	1st Coat	METALSHIELD® ETCH Primer	10 Microns
		2nd Coat	METALSHIELD® QD Enamel Topcoat	40 Microns
GALVANISED*, ALUMINIUM, FIBREGLASS	Clean, degrease and abrade surface	1st Coat	METALSHIELD® ETCH Primer	10 Microns
		2nd Coat	METALSHIELD® QD Enamel Topcoat	40 Microns
		3rd Coat	METALSHIELD® QD Enamel Topcoat	40 Microns

* Note - this system is only recommended over galvanised mild steel in mild environments.

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. Rust, millscale, oxide deposits and old paint films on metal surfaces should be removed by hand or power tool (AS1627.2 St 3) cleaning as a minimum. Remove all dust by brushing or vacuum cleaning.

Non ferrous metals: Round off all rough welds, sharp edges and remove weld spatter. Remove grease, oil and other contaminants in accordance with AS1627.1. Abrade the surface with abrasive paper or whip blast with fine non-metallic media such as plastic, glass or garnet. Remove all dust by blowing down with compressed air. Abrade using a non-metallic pad, such as a green or brown scot-brite or 180 wet and dry paper wetted with an alkaline detergent and water. Rinse thoroughly with fresh water.

APPLICATION Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Remix thoroughly before using.

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 Delta Gun:	1.4mm (239542)
Pressure at Pot:	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

TOUCHUP SPRAYPAKS For all application instructions and properties of the Touchup Spraypaks refer to the details located on the back of the aerosol can. Note – a slight colour variation may be experienced 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® 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® 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 dry 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 Aged coating should be tested for lifting by a method appropriate for the coating thickness, for example 'X' cut or cross-hatch methods. If it lifts, remove it. 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.

SAFETY PRECAUTIONS **Read Data Sheet, Safety Data Sheet and any precautionary labels on containers.**

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 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 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, it emit toxic fumes.

WELDING Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

SAFETY DATA SHEET is available from Dulux Customer Service (Phone Australia 132 377 or New Zealand 0800 800 424)

www.duluxprotectivecoatings.com.au

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PACKAGING

Available in 1, 4 and 15 litre cans

Available in 300g Aerosols

TRANSPORTATION WEIGHT

0.88 kg/litre

DANGEROUS GOODS

Class 3 UN 1263 (Aerosols Class 2 UN 1950)

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