

METALSHIELD® RUST DEFENCE

Direct to Metal, Modified Acrylic, Self-Priming Finish

LI016

- FEATURES**
- RETAINS COLOUR & SHEEN FOR LONGER THAN ALKYD BASED PAINTS
 - FAST-DRY MODIFIED ACRYLIC, TOUCH DRY IN 30 MINS, RECOAT IN 1 HOUR AT 25°C
 - TINTABLE TO 1000'S OF DULUX COLOURS
 - AVAILABLE IN GLOSS AND SATIN FINISHES

USES METALSHIELD® RUST DEFENCE is a single component modified acrylic, designed to provide anti-corrosive properties in a single coat. It is also designed for direct to metal application where suitable preparation has taken place. This fast-drying technology is ideal for projects that require easy application and quick turnaround.

METALSHIELD® RUST DEFENCE is isocyanate-free with fast dry properties, so is well suited for on-site application and touch ups in low wear areas. For industrial strength metal protection, use in combination with a suitable Metalshield primer and apply a second top coat.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Excellent gloss and chalk resistance on exterior exposure	SOLVENTS	Resists splashes of ethanol
HEAT RESISTANCE	Up to 55°C dry heat	WATER	Very good resistance to fresh and salt water splash and spillage, but not suitable for immersion
SALTS	Unaffected by splash and spillage of neutral and alkaline salt solutions	ALKALIS	Good resistance to splash of most common alkalis
ACIDS	Suitable for splash and spillage of mild organic acids	ABRASION	Good when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION		Modified Acrylate Copolymer		APPLICATION CONDITIONS				
FINISH		Gloss and Satin				Min	Max	
COLOUR		White, an extensive range of colours using the Dulux Authentic Colour® Low VOC Tint System, and Black		Air Temp.		10°C	40°C	
				Substrate Temp.		10°C	40°C	
				Relative Humidity			85%	
COMPONENTS		One						
VOLUME SOLIDS		39% (White)		COATING THICKNESS (MICRONS)				
VOC LEVEL		<50 g/L (White, untinted)				Min	Max	Recommended
FLASH POINT		Not applicable		Wet film per coat (µm)		80	105	90
POT LIFE		Not applicable		Dry film per coat (µm)		30	40	35
MIXING RATIO V/V		Single Pack						
THINNER		Potable water		SUITABLE SUBSTRATES		Suitably prepared metals including bare steel, primed steel, aluminum, zinc coated steel and wrought iron.		
PRODUCT CODE		54X-04912	Gloss Vivid White	PRIMERS		Specified Dulux® Metalshield primers		
		54X-04914	Gloss Deep Base					
		54X-16101	Gloss Ultra Deep Base					
		54X-87663	Gloss Extra Bright Base					
		54X-00070	Gloss Black					
		54Z-04912	Satin Vivid White					
		54Z-04914	Satin Deep Base					
		54Z-16101	Satin Ultra Deep Base	APPLICATION METHODS		Air Spray, Airless Spray, Brush, Roller		
		54Z-87663	Satin Extra Bright Base					
		54Z-00070	Satin Black					

DRYING CHARACTERISTICS AT 35 µm DRY FILM THICKNESS*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max ¹
10° C	50%	1.5 Hours	3 Hours	7 days	3 Hours	Extended
15° C	50%	1 Hour	2 Hours	7 days	2 Hours	Extended
25° C	50%	30 Minutes	1 Hour	7 days	1 Hour	Extended

*The drying 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

11.1 square metres per litre equals 35 µm dry film thickness

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

Metalshield® Rust Defence

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 C2)	Power tool clean AS1627.2	1 st Coat Metalshield® Rust Defence 2 nd Coat Metalshield® Rust Defence	35 µm 35 µm
STEEL	Very low corrosivity (AS2312 Cat C1)	Power tool clean AS1627.2	1 st Coat Metalshield® Rust Defence	35 µm
ALUMINIUM	Exterior/Interior	Clean, degrease and abrade surface	1 st Coat Metalshield® Rust Defence 2 nd Coat Metalshield® Rust Defence	35 µm 35 µm
ZINCALUM	Exterior/Interior	Clean, degrease and abrade surface	1 st Coat Metalshield® Rust Defence 2 nd Coat Metalshield® Rust Defence	35 µm 35 µm
GALVANISED STEEL	Exterior/Interior	Clean, degrease and abrade surface	1 st Coat Metalshield® Rust Defence 2 nd Coat Metalshield® Rust Defence	35 µm 35 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: 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. 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. For recommendations on abrasive or whip blast cleaning, refer to your Protective Coatings Representative			
APPLICATION	Mix thoroughly using a power mixer until the contents are uniform. Ensure paint has been tinted to the correct colour before use. DULUX® ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF INCORRECT COLOUR. Box all containers to ensure colour consistency. Remix thoroughly before application.			
BRUSH/ROLLER	Apply even coats of the material to the prepared surface. Additional coats may be required to attain the specified thickness. Thinning is not normally required; however, up to 50 ml/litre of potable water may be added to aid application.			
CONVENTIONAL SPRAY	Typical Set-up	Graco AirPro Pressure at Triton 308: Pressure at Gun:	1.4mm (239542) 70-100 kPa (10-15 p.s.i.) 380-410 kPa (55-60 p.s.i.)	
PRECAUTIONS	This is an industrial product designed for use by experienced applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® Protective Coatings Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® Protective Coatings Australia. The rate of cure is dependent upon temperature. Do not apply at temperatures below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. The surface to be coated must be free of moisture, contaminants, mill scale and loose flakes.			
CLEAN UP	Clean all equipment with clean potable or tap water immediately after each 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 SHEETS are available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au			
STORAGE	The product is NOT classified as dangerous goods for transport or storage. Store in well ventilated bunded area under cover and away from sources of heat. 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 State Spray Painting Regulations.			
FLAMMABILITY	This product is non flammable. 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

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 500ml, 1 litre and 4 litre packs
TRANSPORTATION WEIGHT	1.42 kg/litre (Average of components)
DANGEROUS GOODS	Non Dangerous Goods

Dulux, and Metalshield are registered trademarks of DuluxGroup (Australia) Pty Ltd. Dulux, Rust Defence is a trademark 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.