

# FERREKO<sup>®</sup> No. 5

## Micaceous Iron Oxide Water Borne Acrylic

PC 570

- FEATURES**
- WATER BORNE – EASY CLEAN UP
  - LOW ODOUR
  - USE OVER ZINC RICH PRIMERS WITHOUT MIST COATING
  - EXCELLENT UV DURABILITY

**USES** FERREKO<sup>®</sup> No. 5 is a single-pack water borne acrylic emulsion coating with micaceous iron oxide for excellent durability particularly as a topcoat system over zinc rich primers. The micaceous iron oxide pigment particles interlock in the film to form a barrier against moisture ingress and improve resistance to degradation by UV light. FERREKO<sup>®</sup> No. 5 is recommended on structural steelwork, cranes, tanks and exposed pipelines and industrial plant in mild to moderate situations not subject to high physical abrasion.

**SPECIFICATIONS** AS/NZS 3750.16

### RESISTANCE GUIDE

<b>WEATHERABILITY</b>	Excellent	<b>SOLVENTS</b>	Fair. Not recommended for areas subject to splash and spillage
<b>HEAT RESISTANCE</b>	Up to 90°C dry heat	<b>WATER</b>	Withstands rain and condensation for prolonged periods
<b>SALTS</b>	Unaffected by splash and spillage of neutral salt solutions	<b>ALKALIS</b>	Not recommended for alkaline conditions.
<b>ACIDS</b>	Not recommended for acidic conditions.	<b>ABRASION</b>	Good for a single pack coating when fully cured

### TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Single pack water borne micaceous iron oxide acrylic	<b>APPLICATION CONDITIONS</b>			
<b>FINISH</b>	Flat with low metallic lustre		Min	Max	
<b>COLOUR</b>	Natural Steel Grey Mid Grey St Enoch Grey	<b>Air Temp.</b>	10°C	40°C	
		<b>Substrate Temp.</b>	10°C	40°C	
		<b>Relative Humidity</b>		85%	
		<b>Concrete Moisture</b>		<10%	
<b>COMPONENTS</b>	One	<b>COATING THICKNESS (MICRONS)</b>			
<b>VOLUME SOLIDS</b>	42% (Natural Steel Grey)		Min	Max	Recommended
<b>VOC LEVEL</b>	<71 g/L (Natural Steel Grey)	<b>Wet film per coat (µm)</b>	100	145	120
<b>FLASH POINT</b>	Non flammable	<b>Dry film per coat (µm)</b>	40	60	50
<b>POT LIFE</b>	Not applicable	<b>SUITABLE SUBSTRATES</b>	Suitably primed steel, concrete, aluminium and galvanised steel		
<b>MIXING RATIO V/V</b>	Not applicable (single pack)	<b>PRIMERS</b>	Dulux <sup>®</sup> single pack and two pack primers		
<b>THINNER</b>	Potable Water	<b>TOPCOATS</b>	N/A		
<b>PRODUCT CODE</b>	647-63095 Natural Steel Grey 647-63006 Mid Grey (MTO) 647-00806 St Enoch Grey (MTO)	<b>APPLICATION METHODS</b>	Brush, roller, conventional, airless spray or air assisted spray		

### DRYING CHARACTERISTICS AT 50 µm DRY FILM THICKNESS\*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max
25° C	50%	30 Minutes	2 Hours	7 Days	2 Hours	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

**8.3 square metres per litre equals 50 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	Medium – high corrosivity (AS2312.1 Cat C2-4) System ACL2	Abrasive blast clean AS1627.4 Class 2.5	1 <sup>st</sup> Coat Zincanode® 402 2 <sup>nd</sup> Coat Ferreko® No. 5 3 <sup>rd</sup> Coat Ferreko® No. 5	75 µm 50 µm 50 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C1-2) System ACL1	Abrasive blast clean AS1627.4 Class 2.5	1 <sup>st</sup> Coat Luxaprime® ZP 2 <sup>nd</sup> Coat Ferreko® No. 5 3 <sup>rd</sup> Coat Ferreko® No. 5	75 µm 50 µm 50 µm
ALUMINIUM	Exterior	Clean, degrease and abrade surface	1 <sup>st</sup> Coat Duration® P23 2 <sup>nd</sup> Coat Ferreko® No. 5 3 <sup>rd</sup> Coat Ferreko® No. 5	75 µm 50 µm 50 µm

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

<b>SURFACE PREPARATION</b>	Specifiers should follow the surface preparation guidelines from the data sheet for the primer or first coat selected. The surface must be clean, sound and free from moisture, grease, oil, dirt, rust, loose paint, and other contaminants and abraded to provide a suitable key for the coating system. If topcoat application has exceeded the recoat window of the primer (refer to primer data sheet) then the entire surface MUST be abraded.
<b>APPLICATION</b>	Mix thoroughly using a power mixer until the contents are uniform. Stir paint regularly during application to prevent settling.
<b>BRUSH/ROLLER</b>	Suitable for small areas only. Apply even, heavy coats of the mixed material to the prepared surface. When brushing and rolling additional coats may be required to attain the specified thickness.
<b>CONVENTIONAL SPRAY</b>	Thin up to 50ml/litre with clean potable water to aid atomisation. Apply in multiple wet coats overlapping each pass 50%. Agitate paint regularly during application to prevent settling.
<b>AIRLESS SPRAY</b>	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.)
<b>PRECAUTIONS</b>	Standard airless spray equipment such as a Graco Xtreme 30:1 with a fluid tip of 19 thou (0.48mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Remove manifold and gun filters. Thinning is not normally required but up to 50 ml/litre of clean potable water may be added to ease application. Ensure paint is regularly agitated during application to prevent separation.
<b>CLEAN UP</b>	This is an industrial product designed for use by experienced Protective Coating 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 express written consent of Dulux® Australia. 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. At 25°C and 50% relative humidity, 16 hours drying is required to attain water resistance and 7 days drying to attain full hardness and resistance properties. When overcoating zinc rich coatings ensure that the surface is free of visible moisture or dew. This product is not a decorative coating, and colour variations will occur due to different application techniques. Coatings containing micaceous iron oxide are prone to marring but this will not affect the protective properties.
<b>OVERCOATING</b>	Clean all equipment with clean warm water followed by a solvent as per the recommendations of the spray equipment manufacturer.
<b>SAFETY PRECAUTIONS</b>	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. Epoxies must be abraded if recoated outside the recoat window.
<b>STORAGE</b>	<b>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or <a href="http://www.duluxprotectivecoatings.com.au">www.duluxprotectivecoatings.com.au</a></b>
<b>HANDLING</b>	Store in well-ventilated cool area. Keep containers closed at all times.
<b>USING</b>	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.
<b>FLAMMABILITY</b>	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.
<b>WELDING</b>	This product is non flammable. On burning will emit toxic fumes.
	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  
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DuluxGroup (New Zealand) Pty Ltd  
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### PACKAGING, TRANSPORT AND STORAGE

PACKAGING Available in 4 litre containers  
TRANSPORTATION WEIGHT 1.59 kg/litre  
DANGEROUS GOODS Non Dangerous Goods

Dulux, Ferreko, Luxaprime, Duration and Zincanode are registered trade marks of DuluxGroup (Australia) Pty Ltd.

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