

# FERREKO<sup>®</sup> No 3

Micaceous Iron Oxide Two Pack Epoxy

PC 560

- FEATURES**
- EXTENSIVE SERVICE HISTORY IN MARINE AND CORROSIVE CONDITIONS
  - APAS APPROVED LONG LIFE FINISH
  - HIGH PERFORMANCE MIO COATING FOR STRUCTURAL STEEL
  - AVAILABLE IN ENVIRONMENTAL COLOURS

**USES** FERREKO<sup>®</sup> No 3 is a two component epoxy coating that displays outstanding durability and abrasion resistance due to the presence of micaceous iron oxide in the film. Cured films resist UV light and moisture penetration with minimum chalking or deterioration.

FERREKO<sup>®</sup> No 3 is designed for the protection of steel structures in aggressive marine and industrial atmospheres particularly where resistance to abrasion is important. Applications include wharf super-structures, ship loaders, bridges, hoppers, conveyors, silos and storage tanks.

**SPECIFICATIONS** AS/NZS 3750.14

## RESISTANCE GUIDE

<b>HEAT RESISTANCE</b>	Up to 150°C dry heat.	<b>ALKALIS</b>	Excellent resistance to splash and spillage of most common alkalis. Aluminium containing colours are not recommended for alkaline conditions.
<b>WEATHERABILITY</b>	Epoxy coatings may yellow with time. 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.	<b>SALTS</b>	Withstands immersion in strong alkali, neutral and mild acid salt solutions. Aluminium containing colours are not recommended for alkaline conditions.
<b>SOLVENTS</b>	Unaffected by immersion in petroleum solvents, gasoline, diesel fuel and lubricating oils.	<b>WATER</b>	Excellent resistance to immersion in fresh and salt water. Aluminium containing colours are not recommended for immersion conditions.
<b>ACIDS</b>	Suitable for splash and spillage exposure to weak solutions of inorganic and organic acids. Aluminium containing colours are not recommended for acidic conditions.	<b>ABRASION</b>	Excellent when fully cured.

## TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Two pack epoxy micaceous iron oxide	<b>APPLICATION CONDITIONS</b>	Min	Max	
<b>FINISH</b>	Low metallic lustre	Air Temperature	10°C	45°C	
<b>COLOUR</b>	Natural Grey, Mid Grey	Substrate Surface Temperature	10°C	45°C	
		Relative Humidity		85%	
<b>COMPONENTS</b>	Two		Min	Max	Recom.
<b>SOLIDS BY VOLUME</b>	60% (Natural Grey)	Wet film per coat (microns)	150	210	170
<b>VOC LEVEL</b>	<350 g/L (Natural Grey)	Dry film per coat (microns)	90	125	100
<b>FLASH POINT</b>	24°C				
<b>POT LIFE</b>	6 Hours (25°C)	<b>SUITABLE SUBSTRATES</b>	Suitably primed steel.		
<b>MIXING RATIO (V/V)</b>	Part A : 5 Part B : 1	<b>PRIMERS</b>	Two pack primers		
<b>THINNER</b>	920-08925 Dulux <sup>®</sup> Epoxy Thinner	<b>APPLICATION METHODS</b>	Brush, roller, conventional, airless spray or air assisted spray.		
<b>PRODUCT CODE</b>	747-63095 Natural Grey 747-63006 Mid Grey 976-63049 Hardener				

### Drying characteristics at 100 microns dry film thickness

Temperature	Humidity	Touch	Handle	Full Cure	Overcoat	
					Min	Max
10° C	50%	7 Hours	14 Hours	7 Days	16 Hours	48 Hours
15° C	50%	5 Hours	10 Hours	7 Days	10 Hours	48 Hours
25° C	50%	3 Hours	5 Hours	7 Days	5 Hours	48 Hours

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

If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

Refer to PRECAUTIONS section for immersion service requirements.

### TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD

A spreading rate of 6.0 sq. metres per litre corresponds to 100 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	Abrasive blast AS1627.4 Class 2.5	1st Coat	ZINCANODE <sup>®</sup> 402	75 Microns
		2nd Coat	FERREKO <sup>®</sup> No 3	100 Microns
		3rd Coat	FERREKO <sup>®</sup> No 3	100 Microns
		1st Coat	DUREPON <sup>®</sup> P14	75 Microns
		2nd Coat	FERREKO <sup>®</sup> No 3	100 Microns
		3rd Coat	WEATHERMAX <sup>™</sup> HBR (Optional)	100 Microns

<b>SURFACE PREPARATION</b>	It is recommended that specifiers follow the guidelines for surface preparation from the data sheet for the primer selected. The primer surface must be free from grease, oil, dirt and other loosely adhering materials.
<b>APPLICATION</b>	Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Mix the contents of both packs together thoroughly using a power mixer and allow to stand for 10 minutes. Remix thoroughly before using and continue mixing during application.
<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 150ml/litre with Dulux <sup>®</sup> Epoxy Thinner (920-08925) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%. Ensure paint is regularly agitated during application to prevent separation. <u>Typical Set-up</u> Graco Delta Gun: 1.8mm (239543) Pressure at Pot: 70-100 kPa (10-15 p.s.i.) Pressure at Gun: 410-480 kPa (60-70 p.s.i.)
<b>AIRLESS SPRAY</b>	Standard airless spray equipment such as a Graco 33:1 Bulldog with a fluid tip of 15-19 thou (0.38-0.48mm) 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 Dulux <sup>®</sup> Epoxy Thinner (920-08925) may be added to ease application. Ensure paint is regularly agitated during application to prevent separation.
<b>PRECAUTIONS</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 <sup>®</sup> 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 <sup>®</sup> Australia. Freshly mixed material must not be added to material that has been mixed for some time. 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 coating MUST be fully cured and solvent free prior to being placed under immersion conditions. For best results in water immersion conditions replace Dulux <sup>®</sup> Epoxy Thinner (920-08925) with Dulux <sup>®</sup> CR Reducer (965-63020). Aluminium containing colours are not recommended for acidic and alkaline conditions. 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>CLEAN UP</b>	Clean all equipment with Dulux <sup>®</sup> Epoxy Thinner (920-08925) immediately after use.
<b>OVERCOATING</b>	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. If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.
<b>SAFETY PRECAUTIONS</b>	<b>Read Data Sheet, Material Safety Data Sheet and any precautionary labels on containers.</b>
<b>STORAGE</b>	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.
<b>HANDLING</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>USING</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 spray painting, users should comply with the provisions of the respective State Spray Painting Regulations.
<b>FLAMMABILITY</b>	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 <sub>2</sub> or dry chemical powder. On burning will emit toxic fumes.
<b>WELDING</b>	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

**MATERIAL SAFETY DATA SHEET is available from Customer Service (132377) or [www.duluxprotectivecoatings.com.au](http://www.duluxprotectivecoatings.com.au)**

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PACKAGING	Available in 10 litre packs
TRANSPORTATION WEIGHT	2.02 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Class 3 UN 1263 Part B: Class 3 UN 1263

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