FERREKO® No. 3

Micaceous Iron Oxide Two Pack Epoxy — PC 560

FEATURES
- EXTENSIVE SERVICE HISTORY IN MARINE AND CORROSIVE CONDITIONS
- HIGH PERFORMANCE MIO COATING FOR STRUCTURAL STEEL
- CAN BE USED AS INTERMEDIATE OR TOPCOAT

USES

FERREKO® No. 3 is a two-component epoxy coating formulated with micaceous iron oxide pigment that imparts outstanding durability and abrasion resistance. 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® No. 3 is designed for the protection of steel structures in aggressive marine and industrial atmospheres particularly where abrasion resistance is important. Applications include wharf super-structures, ship loaders, bridges, hoppers, conveyors, silos and storage tanks.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Will yellow with time and chalk on exterior exposure, although the MIO pigment reduces chalking. Neither yellowing nor chalking detracts from the protective properties of the coating. Use a weatherable pigmented topcoat if appearance is important.	**SOLVENTS**	Unaffected by immersion in petroleum solvents, gasoline, diesel fuel and lubricating oils
		WATER	Natural Grey is suitable for immersion in fresh and salt water. Mid-Grey is not suitable – see PRECAUTIONS
HEAT RESISTANCE	Up to 150°C dry heat		
SALTS	Natural Grey withstands immersion in strong alkali, neutral and mild acid salt solutions. For Mid Grey, see PRECAUTIONS	**ALKALIS**	Natural Grey has excellent resistance to splash of most alkalis. Mid-Grey NOT suitable – see PRECAUTIONS
ACIDS	Natural Grey is suitable for splash and spillage exposure to weak solutions of inorganic and organic acids. Mid-Grey is not suitable – see PRECAUTIONS	**ABRASION**	Excellent when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Two-pack epoxy micaceous iron oxide
FINISH	Low sheen with low metallic lustre
COLOUR	Natural Grey, Mid Grey
COMPONENTS	Two
VOLUME SOLIDS	60% (Natural Grey)
VOC LEVEL	<350 g/L (Natural Grey)
FLASH POINT	>23°C
POT LIFE	6 hours (4 litre, 25°C)
MIXING RATIO V/V	Part A : 5 Part B : 1
THINNER	920-08925 Dulux® Epoxy Thinner
PRODUCT CODE	747-63095 Natural Steel Grey 747-63006 Mid-Grey 976-63049 Hardener

APPLICATION CONDITIONS

	Min	Max
Air Temp.	10°C	40°C
Substrate Temp.	10°C	40°C
Relative Humidity		85%

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	150	210	170
Dry film per coat (µm)	90	125	100

SUITABLE SUBSTRATES	Suitably primed steel
PRIMERS	Dulux® two pack primers
TOPCOATS	Two pack Dulux® topcoats (optional)
APPLICATION METHODS	Conventional, airless or air-assisted spray

DRYING CHARACTERISTICS AT 100 µm DRY FILM THICKNESS*

					OVERCOAT	
Temperature	**Humidity**	**Touch**	**Handle**	**Full Cure**	**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 a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

SPREADING RATE
ASSUMING NO LOSSES

6.0 square metres per litre equals 100 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 is 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	Very high corrosivity (AS2312.1 Cat C5 EHB6)	Abrasive blast clean AS1627.4 Class 2.5	1st Coat 2nd Coat 3rd Coat	Zincanode® 402 Ferreko® No. 3 Ferreko® No. 3	75 µm 125 µm 125 µm
STEEL – NEW	Very high corrosivity (AS2312.1 Cat C5) Exceeds System PUR7	Abrasive blast clean AS1627.4 Class 2.5	1st Coat 2nd Coat 3rd Coat	Zincanode® 402 Ferreko® No. 3 Weathermax® HBR	75 µm 100 µm 100 µm
STEEL – NEW	Medium corrosivity (AS2312.1 Cat C3)	Abrasive blast clean AS1627.4 Class 2.5	1st Coat 2nd Coat	Durepon® P14 Ferreko® No. 3	75 µm 100 µm

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

SURFACE PREPARATION

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 the topcoat application has exceeded the recoat window of the primer (refer to primer data sheet) then the entire surface MUST be abraded.

APPLICATION

Mix each pack thoroughly using a power mixer until the contents are uniform. Mix the contents of both packs thoroughly with a power mixer and let stand for 10 minutes. Remix thoroughly before application.

BRUSH/ROLLER

Suitable for small areas only. If appearance is important, do not brush. 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.

CONVENTIONAL SPRAY

Thin up to 150ml/litre with Dulux® Epoxy Thinner (920-08925) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%. Agitate paint regularly during application to prevent settling.

Typical Set-up	Graco AirPro:	1.8mm (239543)
	Pressure at Triton 308:	70-100 kPa (10-15 p.s.i.)
	Pressure at Gun:	410-480 kPa (60-70 p.s.i.)

AIRLESS SPRAY

Standard airless spray equipment such as a Graco Xtreme 30:1 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® Epoxy Thinner (920-08925) may be added to aid application. Ensure paint is regularly agitated during application to prevent settling.

PRECAUTIONS

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 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. 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. Product MUST be fully cured and solvent free prior to immersion. For best results in immersion conditions replace Dulux® Epoxy Thinner (920-08925) with Dulux® CR Reducer (965-63020). Aluminium containing colours (ie Mid Grey) are not recommended for immersion, or for service in acidic or alkaline conditions. This product is not a decorative coating, and colour variations will occur with different application techniques. Micaceous iron oxide coatings are prone to marring but this will not affect their protective properties.

CLEAN UP

Clean all equipment with Dulux® Epoxy Thinner (920-08925) 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. Epoxies must be abraded if recoated outside the recoat window.

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 a 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 the risk of inhalation of spray mists exists, wear a combined organic vapour/particulate respirator. When spraying, users must comply with their 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, CO_2 or dry chemical powder. On burning will emit toxic fumes.

WELDING

Avoid inhalation of fumes when welding surfaces coated with this paint. Grind off the coating before welding.

COMPANY INFORMATION

Dulux Protective Coatings is 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
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PACKAGING, TRANSPORT AND STORAGE

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 1866