

FERREKO® 810

Micaceous Iron Oxide Alkyd Enamel

PC 552

- FEATURES**
- EXCELLENT LONG-TERM DURABILITY
 - SINGLE PACK CONVENIENCE
 - EASY TO APPLY

USES FERREKO® 810 is a single-pack alkyd enamel containing a high level of micaceous iron oxide. 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® 810 is recommended for the protection of roofs, tanks, above-ground pipelines, and general steel structures in rural or industrial environments.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Will yellow with time and may chalk on exterior exposure, although the MIO pigment reduces chalking and becomes more "sparkly". Neither yellowing nor chalking detracts from the protective properties of the coating.	SOLVENTS	Resists splash and spillage of common alcohols, aliphatic and aromatic hydrocarbons
HEAT RESISTANCE	Up to 120°C dry heat	WATER	Withstands long exposure in moist environments but is not suitable for immersion.
SALTS	Natural Grey is suitable for splash and spillage of neutral and alkaline salt solutions. Other colours are not suitable for alkaline salt solutions – See PRECAUTIONS.	ALKALIS	Natural Grey is suitable for mild alkaline environments. Other colours are not suitable – See PRECAUTIONS.
ACIDS	Natural Grey is suitable for splash and spillage exposure to mild acids. Other colours are not suitable – See PRECAUTIONS.	ABRASION	Good when fully cured.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Micaceous Iron Oxide Alkyd Enamel Finish		APPLICATION CONDITIONS		
FINISH	Flat with subtle metallic lustre			Min	Max
COLOUR	Natural Grey, St. Enoch Grey Bridge Grey (Made to Order)		Air Temp.	10°C	40°C
			Substrate Temp.	10°C	40°C
			Relative Humidity		85%
COMPONENTS	One		COATING THICKNESS (MICRONS)		
VOLUME SOLIDS	53% (Natural Grey)			Min	Max
VOC LEVEL	<380 g/L (Natural Grey)				Recommended
FLASH POINT	24°C		Wet film per coat (µm)	75	115
POT LIFE	Not applicable		Dry film per coat (µm)	40	60
MIXING RATIO V/V	Single Pack				95
THINNER – BRUSH		Mineral Turpentine	SUITABLE SUBSTRATES	Suitably primed surfaces including steel, aluminium, galvanised steel and CFC	
THINNER – SPRAY	965-63034	DUTHIN® 340 Spray Thinner	PRIMERS	For steel, most Dulux single pack and two-pack primers. For Galvanised Steel refer to your Dulux Rep for specific recommendations.	
PRODUCT CODE	810-04970	Natural Grey	TOPCOATS	Not applicable	
	810-04973	St. Enoch Grey	APPLICATION METHODS	Brush, roller, conventional, airless spray or air-assisted spray	
	810-04971	Bridge Grey (MTO)			

DRYING CHARACTERISTICS AT 50 µm DRY FILM THICKNESS

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max
25° C	50%	4 Hours	16 Hours	7 Days	16 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**10.6 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.

FERREKO® 810**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	Low – Medium corrosivity (AS2312.1 Cat C2-3)	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat Durepon®EZF	75 µm
			2 nd Coat Ferreko® 810	50 µm
			3 rd Coat Ferreko® 810	50 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C1-2) System ALK6	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat Luxaprime® ZP	75 µm
			2 nd Coat Ferreko® 810	50 µm
			3 rd Coat Ferreko® 810	50 µm
GALVANISED- NEW	Exterior	Degrease and Whip Blast	1 st Coat Durebild® STE	125 µm
			2 nd Coat Ferreko® 810	50 µm
			3 rd Coat Ferreko® 810	50 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 datasheet 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 can thoroughly using a power mixer until the contents are uniform. Remix thoroughly before and during application to prevent settling.
BRUSH/ROLLER	Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 100 ml/litre with mineral turpentine to aid application. When brushing and rolling additional coats may be required to attain the specified thickness. Note: MIO coatings tend to brush-mark severely. If appearance is important, do not brush.
CONVENTIONAL SPRAY	Thin up to 150ml/litre with DUTHIN® 340 Spray Thinner (965-63034) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%. Ensure paint is regularly agitated during application to prevent separation. 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 17-19 thou (0.43-0.48mm) 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 Duthin® 340 Spray Thinner (965-63034) 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 nearest 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. 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 dew point. Do not overcoat before the minimum overcoat interval or wrinkling may occur. Aluminium-containing colours (ie St Enoch Grey and Mid Grey) 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 and UV exposure. Coatings containing micaceous iron oxide are prone to marbling but this will not affect the protective properties. Do not apply this product directly to galvanised iron or zinc-rich coatings. Refer to your Dulux Rep for specific recommendations over galvanised steel surfaces.
CLEAN UP	Clean all equipment with mineral turpentine immediately after use.
OVERCOATING	Degrease with Gamlen CA 1 according to the datasheet. 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 the 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 banded 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 if welding surfaces are coated with this paint. Grind off the coating before welding.

COMPANY INFORMATION

Dulux Protective Coatings is a division of:

DuluxGroup (Australia) Pty Ltd

DuluxGroup (New Zealand) Pty Ltd

PACKAGING, TRANSPORT AND STORAGE

PACKAGING Available in 4 litre containers

TRANSPORTATION WEIGHT 2.07 kg/litre

150 Hutt Park Road, Lower Hutt, NZ
A.B.N. 55 133 404 118

DANGEROUS GOODS Class 3 UN 1263

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