FERRODOR® 810

Micaceous Iron Oxide Alkyd Enamel PC 552

FEATURES
- EXCELLENT LONG TERM DURABILITY
- SUITABLE FOR CATCHMENT OF DRINKING WATER
- SINGLE PACK CONVENIENCE
- EASY TO APPLY

USES FERRODOR® 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. FERRODOR® 810 is recommended for the protection of roofs, tanks and 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 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 not suitable for immersion.
SALTS	Natural Grey is suitable for splash and spillage of neutral and alkaline salt solutions. Other colours not suitable for alkaline salt solutions – See PRECAUTIONS	**ALKALIS**	Natural Grey is suitable for mild alkaline environments. Other colours not suitable – See PRECAUTIONS
ACIDS	Natural Grey is suitable for splash and spillage exposure to mild acids. Other colours not suitable – See PRECAUTIONS	**ABRASION**	Good when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Micaceous Iron Oxide Alkyd Enamel Finish
FINISH	Flat with subtle metallic lustre
COLOUR	Natural Grey, St. Enoch Grey Bridge Grey (Made to Order)
COMPONENTS	One
VOLUME SOLIDS	53% (Natural Grey)
VOC LEVEL	<380 g/L (Natural Grey)
FLASH POINT	24°C
POT LIFE	Not applicable
MIXING RATIO V/V	Single Pack
THINNER – BRUSH	Mineral Turpentine
THINNER – SPRAY	965-63034 DUTHIN® 340 Spray Thinner
PRODUCT CODE	810-04970 Natural Grey 810-04973 St. Enoch Grey 810-04971 Bridge Grey (MTO)

APPLICATION CONDITIONS

	Min	Max
Air Temp.	10°C	45°C
Substrate Temp.	10°C	45°C
Relative Humidity		85%

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	75	115	95
Dry film per coat (µm)	40	60	50

SUITABLE SUBSTRATES	Suitably primed surfaces including steel, aluminium, galvanised steel and CFC
PRIMERS	Most Dulux® single pack and two pack primers
TOPCOATS	Not applicable
APPLICATION METHODS	Brush, roller, conventional, airless spray or air assisted spray

DRYING CHARACTERISTICS AT 50 µm DRY FILM THICKNESS

					OVERCOAT	
Temperature	**Humidity**	**Touch**	**Handle**	**Full Cure**	**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.

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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	Low – Medium corrosivity (AS2312.1 Cat C2-3)	Abrasive blast clean AS1627.4 Class 2.5	1st Coat 2nd Coat 3rd Coat	Durepon® P14 Ferrodor® 810 Ferrodor® 810	75 µm 50 µm 50 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C1-2) System ALK6	Abrasive blast clean AS1627.4 Class 2.5	1st Coat 2nd Coat 3rd Coat	Luxaprime® ZP Ferrodor® 810 Ferrodor® 810	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

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 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 of 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 expsoure. Coatings containing micaceous iron oxide are prone to marring but this will not affect the protective properties. Do not apply this product directly to galvanised iron or zinc rich coatings.

CLEAN UP

Clean all equipment with mineral turpentine 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 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 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 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 coated with this paint. Grind off coating before welding.

COMPANY INFORMATION

Dulux Protective Coatings a division of

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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 4 litre containers
TRANSPORTATION WEIGHT	1.95 kg/litre
DANGEROUS GOODS	Class 3 UN 1263