

# FERRODOR<sup>®</sup> 810

Micaceous Iron Oxide Oleoresinous Finish

PC 552

- FEATURES**
- EXCELLENT DURABILITY AND LONG SERVICE RECOAT
  - SUITABLE FOR CATCHMENT OF DRINKING WATER
  - AVAILABLE IN ENVIRONMENTAL COLOURS

**USES** FERRODOR<sup>®</sup> 810 is a single pack coating based on oil modified oleoresinous resin and contains micaceous iron oxide pigment. The interlocking lamellar nature of the pigments imparts outstanding durability and resistance to moisture vapour transmission. It is recommended for the protection of roofs, tanks and above ground pipelines and general steel structures in rural or industrial environments.

**SPECIFICATIONS** AS/NZS 3750.12

## RESISTANCE GUIDE

<b>HEAT RESISTANCE</b>	Up to 120°C dry heat.	<b>ALKALIS</b>	Suitable for use in mild alkaline environments. Aluminium containing colours are not recommended for alkaline conditions.
<b>WEATHERABILITY</b>	Excellent in all but the most aggressive chemical and marine exposure.	<b>SALTS</b>	Suitable for splash and spillage of neutral and alkaline salt solutions. Aluminium containing colours are not recommended for alkaline conditions.
<b>SOLVENTS</b>	Resists splash and spillage of common alcohols, aliphatic and aromatic hydrocarbons.	<b>WATER</b>	Withstands long exposure in moist environments but not suitable for immersion.
<b>ACIDS</b>	Suitable for use in mild acid environments. Aluminium containing colours are not recommended for acidic conditions.	<b>ABRASION</b>	Good when fully cured.

## TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Alkyd Micaceous iron oxide finish.		<b>APPLICATION CONDITIONS</b>	Min	Max	
<b>FINISH</b>	Low metallic lustre		Air Temperature	10°C	45°C	
<b>COLOUR</b>	Natural Grey, St. Enoch Grey and Bridge Grey (MTO)		Substrate Surface Temperature	10°C	45°C	
<b>COMPONENTS</b>	One		Relative Humidity		85%	
<b>SOLIDS BY VOLUME</b>	53% (Natural Grey)			Min	Max	Recom.
<b>VOC LEVEL</b>	<380 g/L (Natural Grey)		Wet film per coat (microns)	75	115	95
<b>FLASH POINT</b>	24°C		Dry film per coat (microns)	40	60	50
<b>POT LIFE</b>	Not applicable		<b>SUITABLE SUBSTRATES</b>	Suitably primed steel, aluminium and galvanised steel.		
<b>MIXING RATIO (V/V)</b>	Single Pack		<b>PRIMERS</b>	Most single and two pack primers.		
<b>THINNER</b>	<b>Brush</b>	Mineral Turpentine	<b>APPLICATION METHODS</b>	Brush, roller, conventional, airless spray or air assisted spray.		
	<b>Spray</b>	965-63034 DUTHIN <sup>®</sup> 340 Spray Thinner				
<b>PRODUCT CODE</b>	810-04970	Natural Grey				
	810-04973	St. Enoch Grey				
	810-04971	Bridge Grey (MTO)				

### Drying characteristics at 50 microns dry film thickness

Temperature	Humidity	Touch	Handle	Full Cure	Overcoat	
					Min	Max
25° C	50%	4 Hours	16 Hours	7 Days	16 Hours	Indefinite

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

### TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD

A spreading rate of 10.6 sq. metres per litre corresponds to 50 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.

# FERRODOR® 810

## 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	Hand or Power tool clean AS1627.2 St 3 Abrasive blast AS1627.4 Class 1	1st Coat	LUXAPRIME®	75 Microns
		2nd Coat	FERRODOR® 810	50 Microns
		3rd Coat	FERRODOR® 810	50 Microns

**SURFACE PREPARATION** 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.

**APPLICATION** Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Remix thoroughly before using and continue mixing during application.

**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 ease application. When brushing and rolling additional coats may be required to attain the specified thickness.

**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 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.)

**AIRLESS SPRAY** Standard airless spray equipment such as a Graco 33:1 Bulldog 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 ease application. Ensure paint is regularly agitated during application to prevent separation.

**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® 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® 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 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. This product is not suitable to be directly applied over galvanised iron or zinc rich coatings.

**CLEAN UP** Clean all equipment with mineral turpentine immediately after use.

**OVERCOATING** 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.

**SAFETY PRECAUTIONS** Read Data Sheet, Material Safety Data Sheet and any precautionary labels on containers.

**STORAGE** 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.

**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 spray painting, users should comply with the provisions of the 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<sub>2</sub> 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.

**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 4 litre containers
TRANSPORTATION WEIGHT	1.95 kg/litre (Average of components)
DANGEROUS GOODS	Class 3 UN 1263

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