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)

APPLICATION CONDITIONS
Air Temp. 10°C 45°C
Substrate Temp. 10°C 45°C
Relative Humidity 85%

COMPONENTS
One

VOLUME SOLIDS
53% (Natural Grey)

<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)

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

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Humidity</th>
<th>Touch</th>
<th>Handle</th>
<th>Full Cure</th>
<th>OVERCOAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°C</td>
<td>50%</td>
<td>4</td>
<td>16</td>
<td>7 Days</td>
<td>16 Hours</td>
</tr>
</tbody>
</table>

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.
FERRODOR® 810

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.

<table>
<thead>
<tr>
<th>SURFACE</th>
<th>ENVIRONMENT</th>
<th>PREPARATION GUIDE</th>
<th>SYSTEM</th>
<th>DFT (μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEEL – NEW</td>
<td>Low – Medium corrosivity (AS2312.1 Cat C2-3)</td>
<td>Abrasive blast clean AS1627.4 Class 2.5</td>
<td>1st Coat Durepon® P14</td>
<td>75 μm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat Ferrodor® 810</td>
<td>50 μm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat Ferrodor® 810</td>
<td>50 μm</td>
</tr>
<tr>
<td>STEEL – NEW</td>
<td>Low corrosivity (AS2312.1 Cat C1-2) System ALK6</td>
<td>Abrasive blast clean AS1627.4 Class 2.5</td>
<td>1st Coat Luxaprime® ZP</td>
<td>75 μm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat Ferrodor® 810</td>
<td>50 μm</td>
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<tr>
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<td></td>
<td></td>
<td>3rd Coat Ferrodor® 810</td>
<td>50 μm</td>
</tr>
</tbody>
</table>

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.

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 exposure. 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 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 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.

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, CO₂ 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 DuluxGroup (Australia) Pty Ltd
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Dulux Group (New Zealand) Pty Ltd
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PACKAGING

Available in 4 litre containers

TRANSPORTATION WEIGHT

1.95 kg/litre

DANGEROUS GOODS

Class 3 UN 1263

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