FERREKO® No. 3
Micaceous Iron Oxide Two Pack Epoxy

**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 resistance to abrasion is important. Applications include wharf super-structures, ship loaders, bridges, hoppers, conveyors, silos and storage tanks.

**SPECIFICATIONS**

**AS/NZS 3750.14**

**RESISTANCE GUIDE**

- **WEATHERABILITY**
  - Will yellow with time and chalk on exterior exposure, although the MIO pigment reduces chalking. Neither yellowing nor chalking detracts from 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

- **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

**COLOUR**
- Natural Grey, Mid Grey

**FINISH**
- Low sheen with low metallic lustre

**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 Grey
- 747-63006 Mid Grey
- 976-63049 Hardener

**APPLICATION CONDITIONS**

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Max</th>
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</thead>
<tbody>
<tr>
<td>AIR TEMP.</td>
<td>10°C</td>
<td>45°C</td>
</tr>
<tr>
<td>SUBSTRATE TEMP.</td>
<td>10°C</td>
<td>45°C</td>
</tr>
<tr>
<td>RELATIVE HUMIDITY</td>
<td>85%</td>
<td></td>
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</tbody>
</table>

**COATING THICKNESS (MICRONS)**

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Max</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>WET FILM per coat (μm)</td>
<td>150</td>
<td>210</td>
<td>170</td>
</tr>
<tr>
<td>DRY FILM per coat (μm)</td>
<td>90</td>
<td>125</td>
<td>100</td>
</tr>
</tbody>
</table>

**SUITABLE SUBSTRATES**
- Suitable primed steel

**SUITABLE PRIMERS**
- Dulux® two pack primers

**SUITABLE TOPCOATS**
- Two pack Dulux® topcoats (optional)

**APPLICATION METHODS**
- Conventional, airless or air assisted spray

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Max</th>
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<tbody>
<tr>
<td>TEMPERATURE</td>
<td></td>
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<tr>
<td>HUMIDITY</td>
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<td>TOUCH</td>
<td></td>
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<tr>
<td>HANDLE</td>
<td></td>
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<tr>
<td>FULL CURE</td>
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<tr>
<td>OVERCOAT</td>
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</tbody>
</table>

- **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.
### 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>Very high corrosivity (AS2312.1 Cat 5)</td>
<td>Abrasive blast clean AS1627.4 Class 2.5</td>
<td>1st Coat Zincanode® 402</td>
<td>75 μm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat Ferreko® No. 3</td>
<td>100 μm</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat Ferreko® No. 3</td>
<td>100 μm</td>
</tr>
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<td>STEEL – NEW</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat Ferreko® No. 3</td>
<td>100 μm</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat Weathermax® HBR</td>
<td>100 μm</td>
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<tr>
<td>STEEL – NEW</td>
<td>Medium corrosivity (AS2312.1 Cat 5)</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 Ferreko® No. 3</td>
<td>100 μm</td>
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**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

**BRUSH/ROLLER**

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

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.

**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 therefore variations in thickness may occur with different application techniques.

Micaeous 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. Do not store near 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 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.

### FLAMMABILITY

This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fire with foam, CO2 or dry chemical powder. On burning will emit toxic fumes.

### WELDING

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

### COMPANY INFORMATION

Dulux Protective Coatings a division of DuluxGroup (Australia) Pty Ltd

DuluxGroup (New Zealand) Pty Ltd

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