Dulux PROTECTIVE COATINGS

FERREKO® No. 4

Fast Dry High Build Micaceous Iron Oxide Epoxy Coating PC 561

FEATURES
- RAPID OVERCOATING PROPERTIES
- HIGH BUILD TWO PACK EPOXY MICACEOUS IRON OXIDE
- HIGH MIO CONTENT
- SUITABLE FOR DIRECT APPLICATION TO SUITABLY PREPARED METAL

USES FERREKO® No.4 is a 2-component, high solid, fast curing, epoxy primer with a high volume of MIO pigment. It is a high performance MIO coating for use on structural steel and other suitably prepared metals.
Can be used as a part of a system designed to perform in C4-C5 environments. The addition of MIO offers excellent barrier protection and is ideal for use in environments where prevention of moisture ingress and abrasion resistance is needed. Applications include wharf super-structures, ship loaders, bridges, hoppers, conveyors, silos and storage tanks.
FERREKO® No.4 is compatible with a wide range of primers and topcoats.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Will yellow with time and chalk on exterior exposure. Neither yellowing nor chalking detracts from the protective properties of the coating. Use a weatherable topcoat if required for appearance and UV resistance	**SOLVENTS**	Resists splash and spillage of most hydrocarbon solvents, refined petroleum products and most common alcohols
HEAT RESISTANCE	Up to 120°C dry heat	**WATER**	Excellent resistance to fresh and salt water. For use in immersion service refer to your Dulux® Protective Coatings Consultant.
SALTS	Excellent resistance to neutral and alkali salts	**ALKALIS**	Suitable for splash and spillage of strong alkali
ACIDS	Suitable for splash and spillage of mild acids	**ABRASION**	Very Good when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA (STANDARD HARDENER)

CLASSIFICATION	Two-pack epoxy micaceous iron oxide
FINISH	Satin with low metallic lustre
COLOUR	Natural Steel Grey
COMPONENTS	Two
VOLUME SOLIDS	80 ± 2% (Natural Steel Grey)
VOC LEVEL	<180 g/L (Natural Steel Grey)
FLASH POINT	>23°C
POT LIFE	50 Minutes (4L, 25°C)
SPRAY LIFE	50 Minutes (10L, 25°C)
MIXING RATIO V/V	Part A: 4 Part B: 1
THINNER	920-81942 Duthin® 450 Cold Weather
PRODUCT CODE	757-63095 Natural Grey
	976-H0371 Standard Hardener

APPLICATION CONDITIONS

	Min	Max
Air Temp.	5°C	35°C
Substrate Temp.	5°C	35°C
Relative Humidity		85%

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	125^	375	250
Dry film per coat (µm)	100	300	200

SUITABLE SUBSTRATES	Suitably prepared substrates including blast-cleaned steel
PRIMERS	Not required or a specified Dulux® primer if needed
TOPCOATS	Specified Dulux® topcoat (optional)
APPLICATION METHODS	Conventional and airless spray

^An air-spray application will be required to achieve a lower WFT

DRYING CHARACTERISTICS AT 200 µm DRY FILM THICKNESS* (STANDARD HARDENER)

					OVERCOAT	
Temperature	**Humidity**	**Touch**	**Handle**	**Full Cure**	**Min**	**Max[1]**
5° C	50%	4 Hours	16 Hours	7 Days	16 Hours	4 Weeks
10° C	50%	3 Hours	12 Hours	7 Days	12 Hours	4 Weeks
15° C	50%	2 Hours	8 Hours	7 Days	8 Hours	4 Weeks
25° C	50%	90 Minutes	4 Hours	7 Days	4 Hours	4 Weeks

*These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.
[1]**If the maximum overcoat interval is exceeded then the surface MUST be thoroughly and uniformly abraded to ensure maximum intercoat adhesion.**

SPREADING RATE
with Standard Hardener
assuming no losses

4.0 square metres per litre equals 200 µm dry film thickness
NOTE: Practical spreading rates will vary depending on factors such as application method, ambient conditions and surface porosity and roughness.

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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	Very high corrosivity (AS2312.1 Cat C5) Exceeds System PUR5	Abrasive blast clean AS1627.4 Class 2.5	1st Coat 2nd Coat 3rd Coat	Zincanode® 402 Ferreko® No.4 Weathermax® HBR	75 µm 200 µm 100 µm
STEEL – NEW	High corrosivity (AS2312.1 Cat C4) Exceeds System PUR3	Abrasive blast clean AS1627.4 Class 2.5	1st Coat 2nd Coat 3rd Coat	Durepon® EZP Ferreko® No.4 Qauntum® V92	75 µm 125 µm 100 µm
STEEL – NEW	Interior - Med corrosivity (AS2312.1 Cat C3) Exceeds System EVH2	Abrasive blast clean AS1627.4 Class 2.5	1st Coat 2nd Coat	Ferreko® No.4 Ferreko® No.4	200 µm 200 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

Steel: Round off all rough welds, sharp edges and remove weld spatter. Degrease in accordance with AS1627.1. Abrasive blast clean to a minimum of AS1627.4 Class 2.5 using ISO8501-1 as a pictorial guide.

HDG: Prepare all hot dip galvanized surfaces in accordance with the requirements of Section 7.5.3, "Preparation of Painting" of AS 2312.2.

APPLICATION

Mix each side thoroughly using a power mixer until the contents are uniform. Mix the contents of both sides thoroughly using a power mixer.

APPLICATION EQUIPMENT

Airless Spray: Graco Merkur 48:1 spray pump or equivalent**. XHF Direct Feed** spray gun or equivalent. Thinning is not normally required but up to 50 ml/litre or 5% of Dulux® Duthin 450 (920-81942) (preferred thinner) or Dulux® Epoxy Thinner (920-08925) may be added to aid application. Apply in multiple wet coats overlapping each pass by 50%.

Tip Orifice	Atomising Pressure	Mat'l Hose ID	Pump Manifold Filter
0.019" – 0.026" (483 - 584 microns)	2,900 – 3,500 psi (200 – 241 bar)	3/8" (9.5 mm)	None

NOTE: A 2 metre x ¼" (6.35mm) whip hose is allowed at the end of the material hose for greater ease of application. A dedicated material line for use with this product is recommended.

Air Spray: Graco Triton 308 or equivalent**.** Thinning is not normally required but up to 100 ml/litre or 10% of Dulux® Duthin® 450 (920-81942) (preferred thinner) or Dulux® Epoxy Thinner (920-08925) may be added to aid application. Apply in multiple wet coats overlapping each pass by 50%.

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomising Pressure	Material Pressure
Graco Air Pro or Equivalent	2.2 mm (0.086)	Graco 192318	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	60 to 70 PSI (4.14 – 4.83 Bar)	20 to 25 PSI (1.83 – 1.72 Bar)

NOTE: Low temperatures and/or long hose lengths require higher material pressure.

Roller: Thin 10% to 15% with Dulux® Duthin® 450 (920-81942). Recommended for small touch-up areas only. If appearance is important, do not brush. There will be noticeable differences in visual appearance between different application methods. Use 10 mm to 12 mm synthetic woven nap covers. Note: Two or more coats may be required to obtain recommended film thicknesses.

Brush: Thin 10% to 15% with Dulux® Duthin® 450 (920-81942). Recommended for small touch-up areas only. If appearance is important, do not brush. There will be noticeable differences in visual appearance between different application methods. Use high-quality natural or synthetic bristle brushes. Note: Two or more coats may be required to obtain recommended film thicknesses.

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® Protective Coatings Consultant for advice before painting. Do not apply in conditions outside the parameters stated in this document without the express written consent of Dulux® Protective Coatings Australia. Freshly mixed material must not be added to material that has been mixed for some time. Do not apply at temperatures below 5°C when using a Standard hardener. In hot weather conditions where a slower thinner is required use Dulux® Epoxy Thinner (920-08925). Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Contact Dulux® Protective Coatings Consultant for immersion use.

CLEAN UP

Clean all equipment with Dulux® Duthin® 450 (920-81942) immediately after use.

OVERCOATING

For atmospheric service: Assess the condition of aged coatings and the viability of an overcoat system in accordance with the latest versions of SSPC TU No.3, ASTM D 5064, and ASTM D 5065. Consult your local Dulux® Protective Coatings Consultant for specific surface preparation and coating system recommendations.

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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 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 your 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 a 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
1956 Dandenong Road, Clayton 3168
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DuluxGroup (New Zealand) Pty Ltd
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 10 litre packs
TRANSPORTATION WEIGHT	2.3 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Class 3 UN 1263 Part B: Class 3 UN 1263