

DUREPON® FRX

Two Pack Cold Curing Epoxy Zinc Phosphate Primer

PC 204

- **FEATURES** LOW TEMPERATURE CURE
 - FAST RECOAT
 - CONTAINS HIGH LEVELS OF ZINC PHOSPHATE
 - EASY APPLICATION

USES DUREPON® FRX is a versatile primer suitable for application to heavy duty steelwork at low temperatures. It is useful as a tie-coat over inorganic zinc primers and under a wide range of topcoats.

Unlike typical epoxies, DUREPON® FRX does not have a narrow recoat window – it can be recoated with itself or topcoated after longer periods than typical epoxies.

DUREPON® FRX can be overcoated with epoxy, polyurethane or acrylic finishes depending upon service requirements. It has excellent adhesion to blast-cleaned steel, excellent corrosion resistance and rapid dry times, even at temperatures down to 0°.

SPECIFICATIONS AS/NZS 3750.13 Type 2

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.	SOLVENTS	Resists splash and spillage of aromatic and aliphatic hydrocarbon solvents and alcohols.			
HEAT RESISTANCE	Up to 120°C dry heat	WATER	Excellent resistance to fresh and salt water			
SALTS	Unaffected by splash and spillage of neutral and alkaline salt solutions	ALKALIS	Excellent resistance to splash and spillage of most common alkalis			
ACIDS	Suitable for splash and spillage of mild acids	ABRASION	Good when fully cured			

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TYPICAL PROF	PERTIES .	AND APPLICATION D	ATA			
CLASSIFICATION	Epoxy zinc p	phosphate primer	APPLICATION COND	ITIONS		
FINISH	Semi gloss			Min	Max	
COLOUR	0 0 1	Approximate match to AS2700	Air Temp.	0°C	45°C	
	N12 Pastel Grey)		Substrate Temp.	0°C	45°C	
			Relative Humidity		85%	
COMPONENTS	Two					
VOLUME SOLIDS			COATING THICKNES	e (MICDC	MC)	
VOC LEVEL			COATING THICKNES	Min	Max	Recommended
FLASH POINT	– 7°C		Wet film per coat (µm)	85	205	125
POT LIFE	6 hours (4 lit	re kit, 25°C)	Dry film per coat (µm)	50	125	75
MIXING RATIO V/V	Part A : 6	Part B : 1				
THINNER	920-08925	Dulux® Epoxy Thinner	SUITABLE SUBSTRATES	Abrasive b	olast cleane	ed steel
PRODUCT CODE	410-82619 976-82623	Grey Hardener	PRIMERS	Not applica	able	
	I		TOPCOATS	Single and	I two nack	Dulux® products
			101 00/110	omgio and	two paok	Dulax products

DRYING CHARACTERISTICS AT 75 µm DRY FILM THICKNESS* (STANDARD HARDENER)

					OVERCOAT		
Temperature	Humidity	Touch	Handle	Full Cure	Min	Max ¹	
10° C	50%	2 Hours	8 Hours	5 Days	3 Hours	4 Weeks	
15° C	50%	1 Hour	7 Hours	4 Days	2 Hours	4 Weeks	
25° C	50%	1 Hour	4 – 6 Hours	4 Days	1.5 Hours	4 Weeks	

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

SPREADING RATE with Standard Hardener

assuming no losses

8.3 square metres per litre equals 75 µm dry film thickness

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

APPLICATION | Conventional spray, airless spray or air

METHODS assisted spray.

¹For best results, abrade surface before painting to ensure maximum intercoat adhesion.

DUREPON® FRX

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	High corrosivity (AS2312.1 Cat C4) System PUR 3	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat 2 nd Coat 3 rd Coat	Durepon® FRX Duremax® GPE Weathermax® HBR	75 μm 125 μm 100 μm
STEEL - NEW	Severe Industrial Corrosivity (AS2312.1) System EVH4	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat 2 nd Coat 3 rd Coat	Durepon [®] FRX Duremax [®] HBE Duremax [®] HBE	75 μm 250 μm 250 μm
STEEL - NEW	Moderate Industrial (AS2312.1) System EHB3	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat 2 nd Coat	Durepon [®] FRX Duremax [®] HBE	75 μm 200 μm
STEEL – NEW	Low - Medium (AS2312.1 Cat C2-3) System PUR2	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat 2 nd Coat 3 rd Coat	Durepon [®] FRX Luxathane [®] HPX Luxathane [®] HPX (Optional)	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 Steel: Round off all rough welds, sharp edges and remove weld spatter. Remove grease, oil and other					

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PREP/	4R	ATI	ON

E Steel: Round off all rough welds, sharp edges and remove weld spatter. Remove grease, oil and other ↓ contaminants in accordance with AS1627.1. Abrasive blast clean to a minimum of AS1627.4 Class 2.5.

APPLICATION

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

BRUSH/ROLLER

Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 100 ml/litre with Duthin[®] 450 (920-81942) to aid application. When brushing and rolling additional coats may be required to attain the specified thickness.

CONVENTIONAL SPRAY

Thin up to 100 ml/litre with Duthin[®] 450 (920-81942) to aid atomisation. At temperatures below 15°C, up to 150 ml/litre thinner may be required.

Typical Set-up Graco AirPro

Graco AirPro 1.8mm (239543) lwata W70 Gun: 021 Air Cap, 021 Fluid Needle, 021 Fluid Nozzle

Pressure at Pot: 70-100 kPa (10-15 p.s.i.)
Pressure at Gun: 380-410 kPa (55-60 p.s.i.)

AIRLESS SPRAY

Standard airless spray equipment such as a Graco Xtreme 45:1 with a fluid tip of 17-21 thou (0.43 -0.53mm) and an air supply capable of delivering 550-690 kPa (80 -100 psi) at the pump. Ideally fluid hoses should not be less than 3/8" ID and not longer than 50 feet to obtain optimum results. Thinning is not normally required but up to 100 ml/litre of Duthin® 450 (920-81942) may be added to ease application.

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. 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 relative humidity above 85% or when the surface is less than 3°C above the dewpoint. In hot conditions above 30°C Dulux® Epoxy Thinner (920-08925) can be used in place of Duthin® 450 to improve application. Do not use on galvanised steel as delamination can occur.

CLEAN UP

Clean all equipment with Duthin® 450 (920-81942) 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		PACKAGING, TRANSPORT AND STORAGE		
Dulux Protective Coatings a division of		PACKAGING	Available in 20 litre packs	
DuluxGroup (Australia) Pty Ltd	DuluxGroup (New Zealand) Pty Ltd	TRANSPORTATION WEIGHT	1.44 kg/litre (Average of components)	
1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427	8 150 Hutt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118	DANGEROUS GOODS	Part A: Class 3 UN 1263 Part B: Class 3 UN 1263	

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