

# DUREPON<sup>®</sup> E ZP

## Two Pack Epoxy Zinc Phosphate Primer

PC 209

- FEATURES**
- INHIBITIVE EPOXY PRIMER FOR STEEL AND OTHER PREPARED SURFACES
  - SMOOTH FINISH
  - ANTI-CORROSIVE PIGMENTATION
  - GOOD CHEMICAL AND SOLVENT RESISTANCE
  - QUICKTURN<sup>™</sup> FAST CURE HARDENER AVAILABLE

**USES** DUREPON<sup>®</sup> E ZP is a two pack epoxy primer that is enhanced with zinc phosphate pigment for inhibitive corrosion protection on mild steel. It is suitable as a primer for steelwork in for a wide range of applications including commercial construction, manufacturing & chemical plants, power generation and sporting facilities.

DUREPON<sup>®</sup> E ZP QUICKTURN<sup>™</sup> hardener for faster overcoat time in standard conditions. It also acts as a cold cure hardener for cooler climates, curing down to 5°C (standard hardener limited to above 10°C).

DUREPON<sup>®</sup> E ZP can be overcoated with epoxy, polyurethane or acrylic finishes depending upon the end requirements.

**SPECIFICATIONS** AS/NZS 3750.13 Type 2

### RESISTANCE GUIDE

<b>WEATHERABILITY</b>	Will yellow with time. Will chalk on exterior exposure. Neither yellowing nor chalking detracts from the protective properties of the coating. Use a weatherable topcoat if required for appearance.	<b>SOLVENTS</b>	Resists splash and spillage of most hydrocarbon solvents, refined petroleum products and most common alcohols
<b>HEAT RESISTANCE</b>	Up to 120°C dry heat	<b>WATER</b>	Excellent resistance to fresh and salt water. Not suitable for immersion.
<b>SALTS</b>	Unaffected by splash and spillage of neutral and alkaline salt solutions	<b>ALKALIS</b>	Excellent resistance to splash and spillage of most common alkalis
<b>ACIDS</b>	Suitable for splash and spillage of weak acids	<b>ABRASION</b>	Good when fully cured

### TYPICAL PROPERTIES AND APPLICATION DATA (STANDARD HARDENER)

<b>CLASSIFICATION</b>	Epoxy zinc phosphate primer	<b>APPLICATION CONDITIONS</b>			
<b>FINISH</b>	Low Sheen		Min	Max	
<b>COLOUR</b>	Grey	<b>Air Temp.</b>	10°C	45°C	
		<b>Substrate Temp.</b>	10°C	45°C	
		<b>Relative Humidity</b>		85%	
<b>COMPONENTS</b>	Two	<b>COATING THICKNESS (MICRONS)</b>			
<b>VOLUME SOLIDS</b>	52.8%		Min	Max	Recommended
<b>VOC LEVEL</b>	<470 g/L	<b>Wet film per coat (µm)</b>	95	170	140
<b>FLASH POINT</b>	>23°C	<b>Dry film per coat (µm)</b>	50	90	75
<b>POT LIFE</b>	3-4 hours (4 litre kit, 25°C)	<b>SUITABLE SUBSTRATES</b>	Abrasive blast cleaned steel		
<b>MIXING RATIO V/V</b>	Part A : 3 Part B : 1	<b>PRIMERS</b>	Not applicable		
<b>THINNER</b>	920-08925 Dulux <sup>®</sup> Epoxy Thinner 920-81942 Dulux <sup>®</sup> Duthin <sup>®</sup> 450	<b>TOPCOATS</b>	Single and two pack Dulux <sup>®</sup> products		
<b>PRODUCT CODE</b>	410-H0154 Grey 976-H0155 Standard Hardener 976-H0203 Quickturn <sup>™</sup> Hardener	<b>APPLICATION METHODS</b>	Brush, roller, conventional, airless spray or air assisted spray.		

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

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max <sup>1</sup>
10° C	50%	8 Hours	28 Hours	7 Days	28 Hours	4 weeks
15° C	50%	4 Hours	16 Hours	7 Days	16 Hours	4 weeks
25° C	50%	2 Hour	8 Hours	7 Days	8 Hours	4 weeks

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

<sup>1</sup>If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion

**SPREADING RATE**  
with Standard Hardener  
assuming no losses

**7.0 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.

# DUREPON® EZP

## QUICKTURN™ HARDENER

### COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	95	170	145
Dry film per coat (µm)	50	90	75
<b>SOLIDS BY VOLUME</b>	52.3%		
<b>VOC LEVEL</b>	<475 g/L		
<b>POT LIFE</b>	1.5 hours (4 litre kit, 25°C)		

### APPLICATION CONDITIONS

	Min	Max
<b>Air Temperature</b>	5°C	35°C
<b>Substrate Surface Temperature</b>	5°C	35°C
<b>Relative Humidity</b>		85%

## DRYING CHARACTERISTICS AT 75 µm DRY FILM THICKNESS\* (QUICKTURN™ HARDENER)

### OVERCOAT

Temperature	Humidity	Touch	Handle	Full Cure	Min	Max <sup>1</sup>
5° C	50%	6 Hours	10 Hours	7 Days	10 Hours	7 Days
15° C	50%	3 Hours	5 Hours	7 Days	5 Hours	7 Days
25° C	50%	1.5 Hours	2.5 Hours	7 Days	2.5 Hours	7 Days

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

### SPREADING RATE

with Quickturn™ Hardener  
 assuming no losses

**7.0 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.

## 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 EHB5	Abrasive blast clean AS1627.4 Class 2.5	1 <sup>st</sup> Coat Durepon® EZP 2 <sup>nd</sup> Coat Ferreko® No. 3 3 <sup>rd</sup> Coat Ferreko® No. 3	75 µm 125 µm 125 µm
STEEL – NEW	High corrosivity (AS2312.1 Cat C4) System PUR 3	Abrasive blast clean AS1627.4 Class 2.5	1 <sup>st</sup> Coat Durepon® EZP 2 <sup>nd</sup> Coat Duremax® GPE 3 <sup>rd</sup> Coat Luxathane® HPX	75 µm 125 µm 50 µm
STEEL – NEW	Medium – high corrosivity (AS2312.1 Cat C2-3) System ACC4	Abrasive blast clean AS1627.4 Class 2.5	1 <sup>st</sup> Coat Durepon® EZP 2 <sup>nd</sup> Coat Duremax GPE 3 <sup>rd</sup> Coat Acrathane® IF	75 µm 125 µm 50 µm
STEEL – NEW	Low - Medium (AS2312.1 Cat C2-3) System ACC2	Abrasive blast clean AS1627.4 Class 2.5	1 <sup>st</sup> Coat Durepon® EZP 2 <sup>nd</sup> Coat Acrathane® IF	75 µm 50 µm
STEEL – NEW	Low - Medium (AS2312.1 Cat C2-3) System PUR2	Abrasive blast clean AS1627.4 Class 2.5	1 <sup>st</sup> Coat Durepon® EZP 2 <sup>nd</sup> Coat Weathermax® HBR	75 µm 100 µm

**NOTE:** If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity

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<b>SURFACE PREPARATION</b>	<b>Steel:</b> Round off all rough welds, sharp edges and remove weld spatter. Remove grease, oil and other contaminants in accordance with AS1627.1. Degrease with Gamlen CA 1 (a free-rinsing, alkaline detergent) according to the manufacturer's written instructions and all safety warnings. Abrasive blast clean to a minimum of AS1627.4 Class 2.5 with a blast profile of 40 – 70 microns. Remove all dust by brush or vacuum.						
<b>APPLICATION</b>	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.						
<b>BRUSH/ROLLER</b>	Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 50 ml/litre with Dulux® Epoxy Thinner (920-08925) or Dulux® Duthin 450 (920-81942) to ease application. When brushing and rolling additional coats may be required to attain the specified thickness.						
<b>CONVENTIONAL SPRAY</b>	Thin up to 125ml/litre with Dulux® Epoxy Thinner (920-08925) or Dulux® Duthin 450 (920-81942) to aid atomisation.						
<b>AIRLESS SPRAY</b>	<p>Typical Set-up</p> <table border="0"> <tr> <td>Graco AirPro:</td> <td>1.8mm (239543)</td> </tr> <tr> <td>Pressure at Triton 308:</td> <td>70-100 kPa (10-15 p.s.i.)</td> </tr> <tr> <td>Pressure at Gun:</td> <td>380-410 kPa (55-60 p.s.i.)</td> </tr> </table> <p>Standard airless spray equipment such as a Graco Xtreme 30:1 ratio with a fluid tip of 15 thou (0.38mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Thinning is not normally required but up to 50 ml/litre of Dulux® Epoxy Thinner (920-08925) may be added to ease application.</p>	Graco AirPro:	1.8mm (239543)	Pressure at Triton 308:	70-100 kPa (10-15 p.s.i.)	Pressure at Gun:	380-410 kPa (55-60 p.s.i.)
Graco AirPro:	1.8mm (239543)						
Pressure at Triton 308:	70-100 kPa (10-15 p.s.i.)						
Pressure at Gun:	380-410 kPa (55-60 p.s.i.)						
<b>PRECAUTIONS</b>	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. Freshly mixed material must not be added to material, which has been mixed for some time. 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. Use of fast or low temperature hardeners may result in a reduction of gloss level.						
<b>CLEAN UP</b>	Clean all equipment with Dulux® Epoxy Thinner (920-08925) or Dulux® Duthin 450 (920-81942) immediately after use.						
<b>OVERCOATING</b>	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.						
<b>SAFETY PRECAUTIONS</b>	<b>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or <a href="http://www.duluxprotectivecoatings.com.au">www.duluxprotectivecoatings.com.au</a></b>						
<b>STORAGE</b>	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.						
<b>HANDLING</b>	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.						
<b>USING</b>	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.						
<b>FLAMMABILITY</b>	This product is flammable. All sources of ignition must be eliminated in, or near the working area. <b>DO NOT SMOKE.</b> Fight fire with foam, CO <sub>2</sub> or dry chemical powder. On burning will emit toxic fumes.						
<b>WELDING</b>	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 is a division of		<b>PACKAGING</b>	Available in 4 litre and 15 litre packs
DuluxGroup (Australia) Pty Ltd 1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427	DuluxGroup (New Zealand) Pty Ltd 150 Hutt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118	<b>TRANSPORTATION WEIGHT</b>	1.60 kg/litre (Average of components)
		<b>DANGEROUS GOODS</b>	Part A: Class 3 UN 1263 Part B: Class 3 UN 2733

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