

DUREPON[®] GP-ZP

(Formally known as Duremax[®] GPE ZP)

General Purpose Epoxy Zinc Phosphate Primer

PC 215

- FEATURES**
- EXCELLENT DURABILITY ACROSS DIVERSE ENVIRONMENTS
 - INHIBITIVE CORROSION PROTECTION
 - GOOD ABRASION RESISTANCE
 - HIGH BUILD FORMULATION PROVIDES SUPERIOR EDGE PROTECTION COMPARED WITH CONVENTIONAL ZINC PHOSPHATE EPOXIES

USES DUREPON[®] GP-ZP has been locally developed specially for Australia and New Zealand conditions. It is a general-purpose epoxy primer enhanced with zinc phosphate pigment for inhibitive corrosion protection on mild steel. DUREPON[®] GP-ZP is a high-performance coating for the protection of structures exposed to harsh C1-C5 environments as part of a coating system.

SPECIFICATIONS APAS 2971 V11: assessed and confirmed to meet all requirements on specific certified products. Refer to a Dulux Protective Coatings Consultant for details

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 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 but not suitable for immersion |
| SALTS | Excellent resistance to neutral and alkaline salts | ALKALIS | Suitable for splash and spillage of strong alkali |
| ACIDS | Suitable for splash and spillage of mild acids | ABRASION | Good when fully cured |

TYPICAL PROPERTIES AND APPLICATION DATA (STANDARD HARDENER)

| | | | | | |
|-------------------------|---|------------------------------------|---|------|-------------|
| CLASSIFICATION | Anticorrosive ZP epoxy primer | APPLICATION CONDITIONS | | | |
| FINISH | Semi-Gloss | | Min | Max | |
| COLOUR | Grey | Air Temp. | 5°C | 35°C | |
| | | Substrate Temp. | 5°C | 35°C | |
| | | Relative Humidity | | 85% | |
| COMPONENTS | Two | COATING THICKNESS (MICRONS) | | | |
| VOLUME SOLIDS | 74±2% | | Min | Max | Recommended |
| VOC LEVEL | <310 g/L | Wet film per coat (µm) | 140 | 275 | 170 |
| FLASH POINT | 4°C | Dry film per coat (µm) | 100 | 200 | 125 |
| POT LIFE | 90 Minutes (4 litre kit, 25°C) | SUITABLE SUBSTRATES | Suitably prepared and primed substrates including blast-cleaned steel | | |
| MIXING RATIO V/V | Part A : 4 Part B : 1 | PRIMERS | Not applicable | | |
| THINNER | 920-08925 Dulux [®] Epoxy Thinner 920-81942 Dulux [®] Duthin [®] 450 Cold Weather Thinner | TOPCOATS | Most Dulux [®] Protective Coatings two pack topcoats | | |
| PRODUCT CODE | 410-52033 Grey 976-H0447 Quickturn [®] Hardener | APPLICATION METHODS | Conventional, airless spray or air assisted spray. | | |

DRYING CHARACTERISTICS AT 125 µm DRY FILM THICKNESS* (QUICKTURN[®] HARDENER)

| Temperature | Humidity | Touch | Handle | Full Cure | OVERCOAT | |
|-------------|----------|------------|----------|-----------|----------|------------------|
| | | | | | Min | Max ¹ |
| 5° C | 50% | 7 Hours | 14 Hours | 7 Days | 14 Hours | 4 Weeks |
| 10° C | 50% | 5 Hours | 9 Hours | 7 Days | 9 Hours | 4 Weeks |
| 15° C | 50% | 3 Hours | 5 Hours | 7 Days | 5 Hours | 4 Weeks |
| 25° C | 50% | 90 Minutes | 3 Hours | 7 Days | 3 Hours | 4 Weeks |

*These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.
¹If the maximum overcoat interval is exceeded then the surface **MUST** be abraded to ensure maximum intercoat adhesion. The use of fast or low temperature hardeners may result in increased yellowing and a reduction of gloss level.

SPREADING RATE with Quickturn[®] Hardener assuming no losses **5.8 square metres per litre equals 125 µm dry film thickness**
 NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

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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 | Moderate – High (AS2312.1 Cat C4) | Abrasive blast clean AS1627.4 Class 2.5 | 1 st Coat Durepon® GP-ZP 2 nd Coat Duremax® GPE MIO 3 rd Coat Duremax® GPE MIO | 125 µm 125 µm 125 µm |
| STEEL – NEW | Mild – Moderate (AS2312.1 Cat 3) | Abrasive blast clean AS1627.4 Class 2.5 | 1 st Coat Durepon® GP-ZP 2 nd Coat Weathermax® HBR | 125 µm 100 µm |
| STEEL – NEW | Interior | Abrasive blast clean AS1627.4 Class 2.5 | 1 st Coat Durepon® GP-ZP 2 nd Coat Duremax® GPE | 125 µm 125 µm |

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

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| SURFACE PREPARATION | Steel: 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. |
| 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. When brushing and rolling additional coats may be required to attain the specified thickness. |
| CONVENTIONAL SPRAY | Thinning is not normally required, however a small amount (5% or less by volume) of Dulux® Epoxy Thinner (920-08925) or Duthin® 450 (920-81942) can be added. Typical Set-up Graco AirPro Pressure at Triton 308: 1.8mm (239543) 70-100 kPa (10-15 p.s.i.) Pressure at Gun: 380-415 kPa (55-60 p.s.i.) |
| AIRLESS SPRAY | Standard airless spray equipment such as 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. Thinning is not usually required but up to 50ml/litre of Dulux® Epoxy Thinner (920-08925) or Duthin® 450 (920-81942) may be added to aid 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 express written consent of Dulux® 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 Quickturn® hardener. In cold conditions. Where a fast thinner is required, use Duthin® 450 (920-81942). 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 increased yellowing and a reduction of gloss level. |
| CLEAN UP | Clean all equipment with Dulux® Epoxy Thinner (920-08925) or 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 bonded 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 |
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| Dulux Protective Coatings is a division of DuluxGroup (Australia) Pty Ltd 1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427 | PACKAGING Available in 15 litre packs TRANSPORTATION WEIGHT 1.6 kg/litre (Average of components) DANGEROUS GOODS Part A: Class 3 UN 1263 Part B: Class 3 UN 1263 (Quickturn®) |
| DuluxGroup (New Zealand) Pty Ltd 150 Hutt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118 | |

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