

**DESCRIPTION**

- two pack polyamide-cured zinc rich epoxy primer
- zinc in dry film 87% by weight
- approved to APAS-0014/2
- interim approval to APAS-2916/1
- conforms to AS/NZS 3750.9 type 2

**PRINCIPAL CHARACTERISTICS**

- provides cathodic protection to steel
- designed as a primer for various paint systems in atmospheric and immersion conditions
- designed for fast recoats at low temperatures using Rapid Recoat hardener
- excellent corrosion prevention properties
- can serve as a holding primer for various maintenance systems for a total repair
- the topcoating paint system must be non-saponifiable

**COLOURS AND GLOSS**

- Grey – flat

**RECOMMENDED FILM THICKNESS (PER COAT)**

	Minimum	Maximum	Typical
Dry film thickness microns	50	75	75
Wet film thickness microns	90	135	135
Theoretical spreading rate m <sup>2</sup> /l	11.2	7.5	7.5

**BASIC DATA AT 25 °C**

- solids content approx..... 56% by volume
- mix ratio ..... 3A:1B by volume
- touch dry after ..... 20 minutes
- full cure ..... 5 days
- Zinc rich primers form zinc salts on the surface. At all times, any visible surface contamination and zinc salts must be removed before overcoating by high pressure potable water cleaning (min. 30 MPa/4000 psi), wet abrasive blasting, sweep blasting or mechanical cleaning

**SURFACE PREPARATION**

- all surfaces to be coated must be clean, dry and free from chalking and contamination, and sufficiently roughened
- oil and grease should be removed from all surfaces in accordance with AS 1627.1 solvent cleaning

**MILD STEEL**

- blast clean in accordance with AS 1627.4 to Sa 2½ minimum (AS 1627.9), surface profile 40-70 microns
- if oxidation occurs between blasting and application, the surface should be reblasted to the specified visual standard
- surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner

**PREVIOUS SUITABLE COAT**

- dry and free from any contamination and sufficiently roughened if necessary
- substrate temperature must be at least 5°C during surface preparation, application and curing and at least 3°C above dew point
- relative humidity should not exceed 85%

**APPLICATION INSTRUCTIONS**

- mixing ratio by volume: 3A:1B
- mix Galvit EP100 Part A with Galvit EP100/EP102 Rapid Recoat Part B only
- induction time - 30 mins at 15 °C; 15 mins at 25 °C
- stir thoroughly after the induction time before using
- pot life - 5 hours. Do not use after this time even if the mix is still liquid
- stir the components and mixed product well using a mechanical mixer
- the temperature of the mixed product must be above 15°C, otherwise extra thinner may be required to obtain application viscosity
- too much thinner will result in lower sag resistance and slower cure
- thinner should only be added after mixing the components
- freshly catalysed material should not be added to product that has been mixed for some time
- agitate continuously during application
- Valspar recommends the use of coating inspection reports in compliance with AS/NZS 3894.10,11,12 refer to Information Sheet I-20 for more information
- for recommendations outside those contained in this data sheet, refer to Valspar

**APPLICATION METHODS**

- **AIRLESS SPRAY**
  - recommended thinner ..... Thinner L760
  - volume of thinner ..... 0-20% depending on dft to be applied
  - nozzle orifice approx. .... 0.43-0.48mm (0.017-0.019 inch)
  - nozzle pressure ..... 15 MPa (2100 psi)
- **AIR SPRAY**
  - recommended thinner ..... Thinner L760
  - volume of thinner ..... 0-20% depending on dft to be applied
  - nozzle orifice approx. .... 1.8-2.0mm
  - nozzle pressure ..... 0.3-0.6 MPa (50-85 psi)
- **BRUSH/ROLLER**
  - recommended thinner ..... Thinner L760
  - volume of thinner ..... 0-3%
- **CLEANING SOLVENT** ..... Thinner L760

**SAFETY PRECAUTIONS**

- flammable. Avoid contact with heat and naked flame
- avoid contact with skin and eyes
- use gloves, mask and goggles during application
- provide adequate ventilation when using in confined spaces
- zinc paints may develop pressure on storage, open containers carefully
- provide adequate ventilation when cutting or welding this product due to harmful zinc fumes
- this product is intended for use in industrial situations by professional applicators in accordance with the advice given on this sheet. All work involving the use and application of this product should be carried out in compliance with all relevant Health, Safety & Environmental standards and regulations and must not be used without reference to the Safety Data Sheet (SDS)

**ADDITIONAL DATA**

**Surface Preparation of Galvit EP100 before overcoating**

- zinc rich primers can form zinc salts on the surface and these must be removed before overcoating, and sufficiently roughened if necessary
- zinc rich primers should NOT be weathered for long periods before overcoating
- in Industrial and Marine Conditions, the overcoating interval should be reduced to the practical minimum
- before overcoating, zinc salts, chalking and all other forms of visible surface contamination must be removed by high pressure (30 MPa/4,000 psi) potable water cleaning, wet abrasive blasting, sweep blasting or mechanical cleaning to prevent zinc salt formation and surface contamination where very long overcoating intervals are required, it is recommended to overcoat Galvit EP100 within two days with Epinamel PR250

**Overcoating Table**

Overcoating interval for Galvit EP100 when top coating with itself or compatible topcoats

Interval	5 °C	15 °C	25 °C	35 °C
Min	3 hrs	2½ hrs	1½ hrs	1 hr
Max	unlimited when free from zinc salts and contamination- see surface preparation notes above			

**Curing and Potlife Table**

Paint temperature	5 °C	15 °C	25 °C	35 °C
Dry to Handle	3 hrs	2 hrs	1 hr	1 hr
Full Cure	10 days	7 days	5 days	3 days
Potlife (at application viscosity)		8 hrs	5 hrs	3

\* adequate ventilation must be continuously maintained during application and curing

**PRECAUTIONS**

- for recommendations outside those contained in this data sheet, refer to Valspar
- epoxy coatings characteristically chalk or discolour on exterior exposure- this does not detract from their protective performance.

**PRODUCT COMPATIBILITY**

**Primers**

- n/a

**Topcoats**

- Galvit EP100
- Epiname PR250
- Epiname EB600
- Epiname DTS680
- Epiname DTM985
- Poly U750
- Poly U775

**STORAGE AND PACKAGING**

- shelf life at least 12 months
- all components shall be stored in a dry internal environment at between 5°C and 35°C
- packaging 8 Litre kit (6 Litre Part A, 2 Litre Part B)
- product line: 2014

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