

DESCRIPTION

- a two pack moisture curing, zinc rich, ethyl silicate primer/finish
- approved to APAS-2908
- conforms to AS/NZS 3750.15 Type 4
- zinc in dry film 78% by weight
- conforms to AS4100-1998 Steel Structures Appendix J – Standard Testing for Evaluation of slip factor Slip Factor 0.58

PRINCIPAL CHARACTERISTICS

- liquid A and B packs
- provides cathodic protection to steel
- high zinc content resulting in excellent corrosion protection
- good impact and good abrasion resistance
- excellent resistance to a wide range of chemicals (refer to I-19 Wattyl Tank Lining Resistance Guide for a full list of suitable cargoes)
- must not be used for immersion or splash in alkaline (more than pH 9) or acidic (less than pH 5) liquids
- to be used as a system primer in various paint systems based on unsaponifiable binders
- can withstand substrate temperatures up to 400 °C, under normal atmospheric exposure conditions
- can be used as a single coat primer/finish

COLOURS AND GLOSS

- Grey - flat

RECOMMENDED FILM THICKNESS

	Minimum	Maximum	Typical
Dry film thickness microns	60	90	75
Wet film thickness microns	92	138	115
Theoretical spreading rate m ² /l	10.9	7.2	8.7

BASIC DATA AT 25 °C / 80% RELATIVE HUMIDITY

- solids content approx.....65% by volume
- mix ratio3A:2B by volume
- touch dry after15 minutes
- overcoating interval.....refer to overcoating table
- full cure16 hours
- 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
- 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
- substrate temperature must be at least 5°C during surface preparation, application and curing and at least 3°C above dew point
- a heavily pitted steel substrate is not acceptable
- substrate temperatures ranging from 5 °C up to 40 °C are acceptable
- relative humidity should be above 60%

APPLICATION INSTRUCTIONS

- mixing ratio by volume: zinc paste to liquid binder - 3A:2B
- mix with Galvit ES510/ES600 Part B only
- induction time - none
- pot life at 25 °C 8 hours. Do not use after this time even if the mix is still liquid
- stir the paste thoroughly before adding the binder
- add gradually one third of the binder to the zinc paste
- stir thoroughly until homogeneous
- add remaining binder and continue stirring until the mixture is homogeneous
- the temperature of the mixed product should be above 15°C
- 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
- at an application temperature above 30 °C addition of max. 10% by volume of Thinner L748 may be necessary to avoid dry spray
- 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**

Avoid excessive film build as mud cracking may occur

- recommended thinner Thinner L760
- volume of thinner 0-10%
- nozzle orifice approx. 0.48-0.64mm
(0.019-0.025 inch)
- nozzle pressure 15 MPa (2100 psi)

• **AIR SPRAY**

- recommended thinner Thinner L760
- volume of thinner 0-10%
- nozzle orifice approx. 2.0mm
- nozzle pressure 0.3 MPa (50 psi)

• **BRUSH/ROLLER**

For spot repair and stripe coating only

- recommended thinner thinning not necessary
- The maximum dry film thickness that can be achieved when brushing/rolling is 50 microns
- Multiple coats may be required to achieve the recommended dry film thickness

• **CLEANING SOLVENT..... Thinner L760**

Note: In warmer conditions, thin with up to 10% Thinner L748 or alternatively, replace up to 50% of Thinner L760 with Mineral Turps to assist application properties

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 ES600 before overcoating

- zinc rich primers can form zinc salts on the surface and these must be removed before overcoating
- 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 ES600 within two days with Epinamel PR250

Overcoating Table

Minimum and maximum overcoating intervals with Galvit ES600

Interval	Humidity	5 °C	15 °C	25 °C	35 °C
Min	<60%	>5 days	>3 days	>36 hrs	>24 hrs
	60%	5 days	3 days	36 hrs	24 hrs
	80%	3 days	1½ days	16 hrs	12 hrs
	>80%	<3 days	<1½ days	<16 hrs	<12 hrs
Max	Unlimited when free from zinc salts and contamination (See surface preparation notes)				

- Galvit ES600 requires moisture for curing
- Galvit ES600 should have full cure before overcoating; relative humidity and temperature should be measured during curing to determine the overcoating time
- to reduce the curing time of Galvit ES600, allow a 4 hour flash-off time, wet the surface by spraying with fresh water and keep wet for the next 4 hours. Test for full cure after this time to determine if a further wet exposure period is required
- curing will be retarded at low humidities. For relative humidities less than 60%, test for full cure before overcoating
- Galvit ES600 can be tested for full cure using a solvent rub test. The coated surface should be rubbed with a cloth soaked in methyl ethyl ketone for determination of cure (refer AS 3894.4/ASTM D4752)
- to avoid possible solvent popping effects (pinholes) when recoating, Galvit ES600 must be sealed with Epinamel PR250 or a thinned first coat of high solids epoxy (refer to Information Sheet I-16 for more information)

Curing and Potlife Table

Paint temperature	Humidity	5 °C	15 °C	25 °C	35 °C
Dry to Handle ¹		5 h	2 h	1 h	45 mins
Full Cure	< 60%	>5 days	>3 days	>36 hrs	>24 hrs
	60%	5 days	3 days	36 hrs	24 hrs
	80%	3 days	1½ days	16 hrs	12 hrs
	> 80%	<3 days	<1½ days	<16 hrs	<12 hrs
Potlife (at application viscosity)		12 hrs	8 hrs	4 hrs	

- adequate ventilation must be continuously maintained during application and curing

¹ this is an approximate guide only.

PRECAUTIONS

- for recommendations outside those contained in this data sheet, refer to Valspar

PRODUCT COMPATIBILITY

Primers

- n/a

Topcoats

- Epinamel PR250
- Epinamel EB600
- Epinamel DTS680
- Epinamel DTM985

STORAGE AND PACKAGING

- shelf life:
Part A at least 12 months.
Part B maximum 6 months from the date of manufacture, refer to label for expiry date. The shelf life may be extended by the Technical Manager following QC testing; please contact your Valspar representative if an extension is required.
- all components shall be stored in a dry internal environment at between 5 °C and 35 °C
- packaging 12.5 Litre kit (7.5Litre Part A, 5 Litre Part B)
- product line: 201431.015 (Part A)
201433.005 (Part B)

For the most up to date information visit our website or Contact Valspar Customer Service Hotline on:

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