

PRODUCT DATA SHEET

## **SELECTION & SPECIFICATION DATA**

**Generic Type** | Non-inhibitive polyamide epoxy

Description

A high performance immersion grade (fresh & salt water) chemically cured (

A high performance, immersion grade (fresh & salt water) chemically cured epoxy primer. Suitable for use over suitably prepared mild steel, galvanised steel, other non-ferrous metals, and most GRP substrates.

- Excellent primer for water and many aqueous chemicals immersion service when topcoated with an approved finish
- · Excellent adhesion to difficult substrates
- · Excellent holding primer
- · Excellent corrosion resistance
- Complies with AS/NZS 3750.13 (2 pack epoxy primer), Types 1, 2 & 3.
- Approved for use in NZ Food Processing Plants (see "Approvals NZ/AU" section)
- AS4020 Potable Water Approval (see "Approvals NZ/AU" section)
- **Features**
- Good abrasion resistanceVery good aged re-coatability
- Resists splash and spillage or fumes of a wide range of chemicals
- · Easy application by brush, roller or spray
- · Ideal tie-coat over inorganic zincs
- Versatile can be used on most substrates under many different types of topcoat
- · Long pot-life
- Excellent maintenance touch-up primer for hand-cleaned substrates
- A user-friendly primer for epoxy or polyurethane systems in environments not suited to zinc primers due to acidic or alkaline fallout or splash & spill.

Colour

Standard: Buff

NZ Only: Grey (10 litre kits only)

Gloss | Flat

Self-primina.

May be used as intermediate or tie-coat over zinc rich primers such as Carbozinc 858 series,

Primer

Carbozinc 11, and Altra~Zinc® 605.

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Film Build

50 - 75 micron dry per coat

Optimum DFT is 50 microns dry - Do not exceed 75 microns

Solid(s) Content | By Volume 50%

Theoretical Coverage Rates

10 m²/litre at 50 microns 6.7 m²/litre at 75 microns

Allow for loss in mixing and application.

**VOC Value(s)** | 432 grams per litre (mixed)

Dry Temp. Resistance

Continuous: 90°C (194°F)

Non-Continuous: 121°C (250°F)

Discolouration will be observed above 93°C

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### **SELECTION & SPECIFICATION DATA**

Not suitable for exposure to strong solvents.

Avoid excessive dry film thickness. Exceeding 75 microns will compromise rate of cure and may result in solvent entrapment. Low temperatures, high humidity and poor ventilation will exacerbate the problem.

Not intended for long term exterior exposures without a topcoat. Exterior exposure will cause early loss of sheen, possible discolouration and chalking. This will not affect the protective properties of the coating.

**Topcoats** | Epoxies, polyurethanes, intumescent base-coats, & antifoulings.

## SUBSTRATES & SURFACE PREPARATION

#### General

Limitations

Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants as described in SSPC-SP 1 (AS 1627.1).

### Steel

For optimum performance in industrial & marine environments, abrasive blast to SSPC-SP 10 (AS 1627.4 Sa  $2\frac{1}{2}$ ) and achieve a uniform jagged blast profile of  $35\mu m$  (minimum) and up to  $75\mu m$ . Interior non-critical exposures: Abrasive Blast SSPC-SP 6 (AS 1627.4 Sa 2) and achieve a uniform jagged blast profile of  $35\mu m$  (minimum) and up to  $75\mu m$ .

For site repairs and where abrasive blasting can not be employed, power tool clean all surfaces to SSPC-SP 3 (AS 1627.2 St 3).

#### **Galvanised Steel**

Ensure there are no chemical treatments that may interfere with adhesion; and abrade (80 grit) or sweep abrasive blast the surface to establish a suitable roughness (typically 25 microns). Avoid aggressive preparation that may remove the zinc coating. Cleaned and roughened galvanizing should be coated immediately after preparation, particularly in humid conditions above 50% RH. Do not allow adhesion-compromising zinc hydroxide (white rust) to form before application.

### Concrete

Concrete should be fully cured for 28 days at 21°C and 50% RH or equivalent. Remove all laitance by sweep abrasive blasting, HP Water-Jetting or acid etching. For maximum performance and to reduce the risk of pin-holing seal the prepared concrete with Carboguard 1340.

# Previously Painted Surfaces

Check existing surface for solvent-resistance and compatibility before commencing work. Sweep abrasive blast or lightly sand to roughen surface and degloss the surface. Existing paint must attain a minimum 3A rating in accordance with ASTM D3359 "X-Cut" adhesion test

### **Stainless Steel**

Surface profile should be dense and angular, achieving a minimum of 25 microns and is best achieved through abrasive blasting with non-metallic media such as aluminium oxide.

## MIXING & THINNING

**Mixing** Mix each component separately, then combine and mix to the correct 4:1 proportions.

Spray: Thinning requirement will vary depending upon conditions. Thin with Thinner #12 as required for good atomisation; typically between 5% - 20%.

#### Thinning

Brush / roller: Due to the initial lacquer dry characteristic of this coating additional thinning with Thinner #12 may be required for a smooth finish. It may be advantageous to use a slow evaporating solvent such as Thinner #25 in warm and/or windy conditions.

Ratio | 4:1 by volume (Part A : Part B)

Pot Life | 12 hours at 25°C (5 litre kit)



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## APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

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**Conventional Spray** 

Pressure pot equipped with dual regulators, 9.5 mm (3/8") I.D. minimum material hose, 1.8 mm (.070") I.D. fluid tip and appropriate air cap. Hold gun 300-350 mm from the surface and at a right angle to the surface.

Pump Ratio: 30:1

Volume Output: 10 I/minute min. Material Hose: 9.5 mm (3/8") min.

Airless Spray

Tip Size: .015-.019"

Output Press.: 2100-2400 psi)

\*Teflon packings are recommended and available from pump manufacturer.

**Brush & Roller** 

The desired film thickness can be achieved in a single brush or roller coat. Avoid excessive re-(General) brushing or re-rolling. For best results, tie-in within 10 minutes at 24°C.

## APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	5°C (41°F)	5°C (41°F)	5°C (41°F)	0%
Maximum	32°C (90°F)	50°C (122°F)	50°C (122°F)	85%
Optimum	20°C (68°F)	20°C (68°F)	20°C (68°F)	50%

Industry standards are for substrate temperatures to be above the dew point.

#### CURING SCHEDULE

Surface Temp.	Minimum Recoat Time w/ Epoxies	Minimum Recoat Time w/ Polyurethanes	Maximum Recoat Time w/ Epoxies	Maximum Recoat Time w/ Polyurethanes
5°C (41°F)	6 Hours	8 Hours	90 Days	28 Days
15°C (59°F)	2.5 Hours	5 Hours	90 Days	28 Days
25°C (77°F)	2 Hours	4 Hours	60 Days	14 Days
30°C (86°F)	1.5 Hours	3 Hours	30 Days	5 Days

Curing schedule is based on 50 microns DFT at 50% RH.

## Topcoating with E~Line® 379:

E~Line® 379 has a limited time to topcoat window; maximum adhesion is obtained by strictly observing maximum topcoat window times listed below. When in doubt light sanding to a matte finish prior to topcoating is recommended.

Maximum: 10 days @ 5°C; 7 days @ 15°C; 5 days @ 25°C; 2 days @ 30°C

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### **Ambient Cure**

Temperature Cautionary Note: The temperatures noted above refer to the time-weighted average substrate or coating temperatures NOT ambient air temperatures. In exterior situations surface temperatures can vary widely with sunlit surfaces often being greater than 20°C higher than the air temperature.

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#### CLEANUP & SAFETY

Cleanup

Use Thinner #2, #12 or acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety

Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation

When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapour concentration from reaching the lower explosion limit for the solvents used.

**Caution** This product contains flammable solvents. Keep away from sparks and open flames.

## PACKAGING, HANDLING & STORAGE

Part A: 24 months @ 24°C

Part B: 24 months @ 24°C

**Shelf Life** 

\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.

Storage Temperature &

Humidity

4-38°C 0-95%

Flash Point (Setaflash) | Part A & B: 23°C

Storage

Store indoors and KEEP DRY

NZ Buff: 1.25 litre, 5 litre, 10 litre kits

**Packaging** 

NZ Grey: 10 litre kit AU Buff: 5 litre, 10 litre kits

## **APPROVALS**

#### Food Processing

NZ AsureQuality assessed & passed for food/beverage including dairy farm & factory non-incidental contact. Ref: H3106.

Approvals NZ/AU

#### AS 4020:2005 Potable Water Approval

AMS Laboratories Pty Ltd: Report No.: 1414240

Exposure ~15,000 mm<sup>2</sup>/L Applies to Buff colour only

### WARRANTY

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