

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type | Phenalkamine Epoxy

Description | Versatile corrosion resistant coating. Used either as a primer or intermediate coat.

· Economical fit for use epoxy

· Contains zinc phosphate.

· Used as a primer or intermediate.

Features Surface tolerant

· VOC compliant to current AIM regulations

· MIO version available

Color | Primer colors (0700) gray and (0500) red.

Finish Low sheen

Primer Self-priming. May be applied over zinc rich primers. A mist coat may be required to minimize

bubbling over inorganic zinc rich primers.

Dry Film Thickness 100 to 250 micron DFC per coat as primer or intermediate coat.

Solids Content | By Volume 82% +/- 3%

5.06 m²/kg - 100 micron ical Coverage 2 02 m²/kg - 250 micron

Theoretical Coverage | 2.02 m²/kg - 250 micron Rates |

Allow for loss in mixing and application.

Theoretical Coverage | 32.3 m²/l at 25 microns (1315 ft²/gal at 1.0 mils)

Rate Allow for loss in mixing and application.

VOC Values | As Supplied : 179 g/l

Dry Temp. Resistance Continuous: 93°C (199°F)

Non-Continuous: 121°C (250°F)

Discoloration and loss of gloss is observed above 93°C (200°F).

Epoxies lose gloss, discolor and eventually chalk in sunlight exposure. Not recommended for immersion service. The product may turn slightly reddish. This will not affect the performance of the

coating but rather a cosmetic issue.

Topcoats | Acrylics, Alkyds, Epoxies, Polyurethanes

SUBSTRATES & SURFACE PREPARATION

General Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.

Steel For most applications: SSPC-SP6 (ISO 8501 Sa 2 ½) to obtain a blast profile of 1.0-2.0 mils (25-50 microns).

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SUBSTRATES & SURFACE PREPARATION

Galvanized Steel

Galvanizing requires a roughened surface for optimum adhesion/performance of high build epoxies. Remove any contaminants per SSPC SP1; ensure there are no chemical treatments that may interfere with adhesion; and abrade the surface to establish a suitable roughness (typically 1 mil). SSPC-SP7 or SP11 are acceptable methods.

MIXING & THINNING

Mixing | Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.

Thinning

Airless Spray: Up to 15% with Thinner #10

• Brush & Roller: Up to 5% with Thinner #10

Ratio

1:1 Ratio (A to B) (10 I Comp.A + 10 I Comp.B) / 1:1 (A to B) + Mio Filler (10 I Comp.A + 10 I Comp.B + 1 I (4,8 kg) Mio Filler) (MIO version)

2 Hours at 25°C

Pot Life

Pot life ends when coating thickens and loses application properties. Pot life times will be less at higher temperatures.

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.

Spray Application (General)

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray

Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 0.070" I.D. fluid tip and appropriate air cap.

- Pump Ratio: 30:1 (min.)*
- GPM Output: 2.5 (min.)
- Material Hose: 3/8" I.D. (min.)

Airless Spray

- Tip Size: 0.015"-0.021"
- Output PSI: 2100-2300
- · Filter Size: 60 mesh
- *PTFE packings are recommended and available from the pump manufacturer.

Brush & Roller (General)

Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or re-rolling. For best results, tie-in within 10 minutes at 75°F (24°C).

Brush Use a medium bristle brush.

Roller | Use 3/8" nap phenolic core roller.



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APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	5°C (41°F)	5°C (41°F)	0%
Maximum	32°C (90°F)	52°C (126°F)	43°C (109°F)	85%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat	Maximum Recoat Time
5°C (41°F)	48 Hours	18 Hours	60 Days
10°C (50°F)	28 Hours	16 Hours	60 Days
15°C (59°F)	24 Hours	12 Hours	60 Days
20°C (68°F)	14 Hours	8 Hours	60 Days
25°C (77°F)	12 Hours	6 Hours	60 Days
30°C (86°F)	9 Hours	5 Hours	60 Days
35°C (95°F)	7 Hours	4 Hours	60 Days

These times are based on 50% relative humidity and 4.0-6.0 mil (100-150 micron) dry film thickness for atmospheric exposures. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before recoating. If the maximum recoat times have been exceeded, the surface must be abraded by sweep blasting or sanding prior to the application of additional coats. For force curing, contact Carboline Technical Service for specific requirements.

CLEANUP & SAFETY

Cleanup

Use Thinner #2 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 SDS 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 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 vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator.

Caution

This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Part A & B: Min. 12 months at 75°F (24°C)

Shelf Life

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

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PACKAGING, HANDLING & STORAGE

Shipping Weight | 20 liter kit (Approximately 34 kg)/ 21 liter (kit) (Approximately 38,8 kg) (Mio version)

(Approximate)

Storage Temperature & | • 40° - 110°F (4°- 43°C)

Humidity • 0-100% Relative Humidity

Flash Point (Setaflash) Part A: 42°C
Part B: 32°C

Storage | Store Indoors.

WARRANTY

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