

SILVERSHIELD

Product Data

SILVERSHIELD
5000X



SELECTION & SPECIFIC DATA

Generic Type

Zinc Rich Polyamado-Amine Epoxy

Description

SILVERSHIELD is a high grade, two part epoxy with anti corrosion resistance fillers designed for long term protection to seal and protect rusted surfaces. SILVERSHIELD contains silver flake that maintains a metallic silver finish. SILVERSHIELD can be applied over manually prepared surfaces to provide a primer or a top coat for corroded areas where blasting is not an option. SILVERSHIELD is easy to apply by brush, roller or sprayer to achieve a 4 to 10 mils. dry film thickness. SILVERSHIELD covers 266 square feet at 6 mils. For large surface areas SILVERSHIELD can be sprayed with a 30:1 airless or higher. You can coat over the top of SILVERSHIELD 6 hours after installation depending on the temperature.

Product Features & Benefits

- *Excellent Corrosion Resistance - 1600 psi Adhesion*
- *Low Stress, Highly Flexible Film*
- *Edge and Corner Protection*
- *Surface Tolerant*
- *100% Solids, No VOCs*
- *Works on Metal, Fiberglass, Stainless Steel, Concrete and Wood Surfaces.*
- *Contains Silver Flake for Long Term Metallic Finish*
- *Rust Inhibitor - Indoor/Outdoor Epoxy Paint*

Recommended Uses

- *Indoor/Outdoor Protection Epoxy Paint*
- *Pipe Exterior & Pipe Racks*
- *Support Columns*
- *Tank Tops and Tank Surfaces*
- *Rust Inhibitor and Condensation Barrier*

Color/Part#	Silver/5000X
Finish	Gloss
Primer	Self-priming
Topcoats	Acrylics, Epoxies, Polyurethanes
Dry Film Thickness	4-12 mils per coat
Solids Content	By Volume 100%
Theoretical Coverage Rate	267 square feet at 6 mils 133 square feet at 12 mils
Dry Temp. Resistance	Continuous: 250°F (121°C) Non-Continuous: 300°F (149°C)
Container Sizes	4x1 kg unit (53sq.ft. @ 6 mils) or 1x1 gallon kit (266sq.ft. @ 6 mils.)
Recommended Thickness	6-12 mils.
Flexibility	ASTM D522-4 - >35%
Flash Point	Resin: >300°F (149°C) hardener: >200°F (93°C)
Pull Off Adhesion Test	ASTM D4541 - 1,600 psi
Specific Gravity	resin: 1.20 hardener: 1.48
Mix Ratio	3-1 Part A to Part B by volume
Weight per gallon	9.83 lbs.

SERVICE TEMPERATURE

Dry Service - 250°F (121°C)
Spill/Splash - 180°F (82°C)
Immersion - *140°F (60°C)

SUBSTRATES & SURFACE PREPARATION

General Clean and dry surface removing dirt, dust, oil and other contaminants.
* For Previous Painted Surfaces consult Dynesic Technologies.

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)

This is a 100% solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Diameter of Whip: 1/4 – 3/8" ID

Length of Whip: 20 feet

Power Ratio Pump: 56:1 or greater

Static Mixer: 2 x 1/2" ID x 12" in length behind mixing valve

Part A Temperature: 130 – 135°F in reservoir tank

Part B Temperature: 90 – 95°F in reservoir tank

Airless Spray Single Leg or Hot Pot

Pump Size: 56:1 or greater

Hose Length/Diameter: 50 ft x 3/8"

Whip Length/Diameter: 10 ft x 1/4"

Work Life, 4 gallons at 32°C (90°F):

No Thinner: 25 minutes

3 – 5% Thinner: 35 – 40 minutes

* Part A resin and Part B hardener should be heated individually to 75 – 85°F before mixing so product will atomize properly in delivering paint to the substrate. Mixed product should be sprayed within 20 minutes after mixing.

Brush & Roller (General)

This material may be applied with brush or roller. Be aware of working life when using brush or roller application.

Brush Use a medium bristle brush.

Roller Use a short-nap synthetic roller cover with phenolic core.

MIXING & THINNING

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

Thinning

Spray: Up to 6.5 oz/gal (5%) w/ Acetone or Xylene

Brush: Up to 16 oz/gal (12%) w/ Acetone or Xylene

Roller: Up to 16 oz/gal (12%) w/ Acetone or Xylene

Pot Life

30 minutes at 25°C (77°F)

15 minutes at 33°C (92°F)

*Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exothermic heat created during the curing process will considerably shorten the pot life. Pour the coating into a rolling tray or large aluminum-basting pan. Try to keep the depth of the coating in the tray below 3/8"

CLEAN-UP & SAFETY

Cleanup Use MEK 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. 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. User should test and monitor exposure levels to insure all personnel are below guidelines.

PACKAGING, HANDLING & STORAGE

Shelf Life 2 Years at 75°F (24°C)
**When kept at recommended storage conditions and in original unopened containers.*

Shipping Weight 1 Gallon Kit: 10 lbs. (4.55 kg)

Storage Temp 40° - 110°F (4 - 43°C)

Storage Store Indoors

PERFORMANCE DATA

<u>TEST METHOD</u>	<u>SYSTEM</u>	<u>RESULTS</u>
Adhesion ASTM D-4541 Dry	Blasted Steel 1 ct.	>1,600 psi
Adhesion ASTM D-4541 Dry	Concrete	>500 psi concrete failure
Flexibility ASTM D-522-4	Steel one coat	>35%

CURE SCHEDULE & RE-COAT WINDOW

<u>TEMPERATURE</u>	<u>MINIMUM RE-COAT</u>	<u>MAXIMUM RE-COAT</u>	<u>RETURN TO SERVICE</u>
15°C (60°F)	10 hours	48 hours	7 days
25°C (77°F)	8 hours	24 hours	24 hours
37°C (100°F)	2 hours	4 hours	4 hours

* Dry to touch 3 hours at 25°C (77°F)

DYNESIC TECHNOLOGIES

Dynesic Technologies produces exceptional chemically engineered coatings, adhesives and sealants offering premium corrosion protection. Dynesic Technologies can be found protecting steel, ductile and concrete substrates worldwide.

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