



PRODUCT GUIDE: ZINC RICH PRIMERS

APRIL 20, 2020
EAGLE BRIDGES COMPANY
216 Hwy 49 S.Byron, GA 31008

Eagle Bridges Company

216 Hwy 49 S.
Byron, GA 31008
800-541-1747
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Product: Inorganic Zinc Rich Ethyl Silicate Primer

Product Code: 1312GA

Description

1312 GA is a two component, zinc rich ethyl silicate primer formulated for use as a primer for galvanic (cathodic) protection for ferrous surfaces. The zinc pigment sacrificially oxidizes to protect iron in ferrous substrates. It has a pot life of 8 hours with no induction time.

Physical Properties

Property Description	Attribute	Property Description	Attributes
Viscosity	95 K.U.	Weight Per Gallon	24.63
Gloss	Flat	Specific Gravity	2.9576
Flash Point	53 degrees F	Theoretical Coverage @1 mil dry: No loss assumed.	709 sq. ft. per gallon
Solids by Volume	44.22 (+/-) 2%	Solids by Weight	84.17 (+/-) 2%
Volatile Organic Content (V.O.C.) less exempt	3.80 # Per Gallon	Volatile Organic Content (V.O.C.) less exempt	455 Grams Per Liter
Hazardous Air Pollutants (H.A.P.s.)	0.00 # Per Gallon	Dry Time to Touch (@ 77 degrees F, 50% RH)	20 Minutes
Dry Time to Handle (@ 77 degrees F, 50% RH)	2-4 Hours	Dry Time to Recoat (@ 77 degrees F, 50% RH)	5-18 Hours

Dry Times

When multiple coats are applied, the dry time between coats depends upon film thickness, temperature and humidity. If the first coat is in the critical cure stage it may be lifted or blistered by the second coat. To test, apply a small swatch over first coat and observe for a few minutes. If no film distortion occurs, it is safe to recoat. When in doubt, allow one week before recoating.

Application

- **Preparation:** - Apply to properly cleaned or treated surface. This may consist of solvent wiping, wire brushing, sandblasting, phosphate treatment or chemical etching. All surfaces must be free of dust, oils and other surface contaminants before application.
- **Reduction:** T-67
- **Method:** Spray, airless or Electrostatic if controlled. Application properties can be adjusted with special solvents
- **Recommended Dry Film:** 2-4 mils
- **Primer:** N/A
- **Temperature:** Ambient temperature above 50 deg. F

Clean Up

Recommended solvent for clean-up is MEK. Do not use Aliphatic solvents such as Mineral Spirits or Naphtha.

Safety and Other Information

For Safety and Handling information please consult the Safety Data Sheet (SDS)

For any other Information Please Contact Eagle Bridges Company, Inc.

800-541-1747 Phone 478-956-3617 Fax Eaglebridges.com Website

This information is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommendations are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use.

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Product: Inorganic Zinc Primer Low VOC Product Code: P-139

Description

P-139 is a two component, zinc-rich ethyl silicate primer formulated for use as a primer for galvanic (cathodic) protection of ferrous surfaces. The zinc pigment sacrificially oxidizes to protect iron in ferrous substrates. Typical Uses: zinc-rich primer to protect ferrous surfaces, such as bridges, tanks, and structural steel. Zinc pigment provides cathodic protection and film undercutting resistance to corrosion. Performance similar to hot-dipped galvanizing.

Special Qualifications: AASHTO M-300, Types I & IA, and for high-strength bolts (ASTM B-490, Class B) slip coefficient of 0.59

Physical Properties

Property Description	Attribute	Property Description	Attributes
Viscosity	90 KU Stormer Mixed	Weight Per Gallon	22.65
Gloss	Flat	Specific Gravity	2.7205
Flash Point	27 degrees F	Theoretical Coverage @1 mil dry: No loss assumed.	686 sq. ft. per gallon
Solids by Volume	42.80 (+/-) 2%	Solids by Weight	82.18 (+/-) 2%
Volatile Organic Content (V.O.C.) less exempt	4.04 # Per Gallon	Volatile Organic Content (V.O.C.) less exempt	483 Grams Per Liter
Hazardous Air Pollutants (H.A.P.s.)	0.00 # Per Gallon	Dry Time to Touch (@ 77 degrees F, 50% RH)	15 minutes
Dry Time to Handle (@ 77 degrees F, 50% RH)	2 -Hours	Dry Time to Recoat (@ 77 degrees F, 50% RH)	24 hours

Dry Times

When multiple coats are applied, the dry time between coats depends upon film thickness, temperature and humidity. If the first coat is in the critical cure stage it may be lifted or blistered by the second coat. To test, apply a small swatch over first coat and observe for a few minutes. If no film distortion occurs, it is safe to recoat. When in doubt, allow one week before recoating.

Application

- **Preparation:** - Apply to properly cleaned or treated surface. This may consist of solvent wiping, wire brushing, sandblasting, phosphate treatment or chemical etching. All surfaces must be free of dust, oils and other surface contaminants before application.
- **Reduction:** If reduction is necessary, use T-160.
- **Method:** Spray, airless or Electrostatic if controlled. Application properties can be adjusted with special solvents
- **Recommended Dry Film:** 3 mils dry mil thickness / 4 mils wet film thickness.
- **Primer:** None
- **Temperature:** Ambient temperature above 50 deg. F
- **Mixing Instructions:** Stir liquid portion first using mechanical agitation (jiffy power mixer). Discard the desiccant bag from the zinc powder, gradually stir the zinc dust into the liquid component under constant agitation. Filter through a 50-mesh screen after mixing. Never add the liquid portion to the zinc dust component. Continuous agitation is required.

Clean Up

Recommended solvent for clean-up is T-40 however any strong Ketone solvent will work.

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Product: Zinc Dust Metal Primer

Product Code: TTP-641G

Description

An alkyd zinc dust primer, which exhibits excellent protection of ferrous and hot-dipped galvanized metal surfaces. Contains in excess of 65% metallic zinc in the dry film. Federal Specification TTP-641G Type II and ASTM A780.

Physical Properties

Property Description	Attribute	Property Description	Attributes
Viscosity	72-80 Mixed	Weight Per Gallon	16.22
Gloss		Specific Gravity	1.9475
Flash Point	105 degrees F	Theoretical Coverage @1 mil dry: No loss assumed.	836 sq. ft. per gallon
Solids by Volume	52.12(+/-) 2%	Solids by Weight	80.53 (+/-) 2%
Volatile Organic Content (V.O.C.) less exempt	3.16 # Per Gallon	Volatile Organic Content (V.O.C.) less exempt	378 Grams Per Liter
Hazardous Air Pollutants (H.A.P.s.)	0.00 # Per Gallon	Dry Time to Touch (@ 77 degrees F, 50% RH)	2 hours
Dry Time to Handle (@ 77 degrees F, 50% RH)	8 hours	Dry Time to Recoat (@ 77 degrees F, 50% RH)	24 hours

Dry Times

When multiple coats are applied, the dry time between coats depends upon film thickness, temperature and humidity. If the first coat is in the critical cure stage it may be lifted or blistered by the second coat. To test, apply a small swatch over first coat and observe for a few minutes. If no film distortion occurs, it is safe to recoat. When in doubt, allow one week before recoating.

Application

- **Preparation:** - Apply to properly cleaned or treated surface. This may consist of solvent wiping, wire brushing, sandblasting, phosphate treatment or chemical etching. All surfaces must be free of dust, oils and other surface contaminants before application.
- **Reduction:** If reduction is necessary, use T-160.
- **Method:** Spray, airless or Electrostatic if controlled. Application properties can be adjusted with special solvents
- **Recommended Dry Film:** 2 mils dry mil thickness / 4 mils wet film thickness.
- **Primer:** None
- **Temperature:** Ambient temperature above 50 deg. F

Clean Up

Recommended solvent for clean-up is Xylene however any strong Aromatic or Ketone solvent will work.

Safety and Other Information

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Product: Zinc Rich Epoxy Polyamide Primer Product Code: 305

Description

305 Zinc Rich Epoxy Primer is a user-friendly primer formulated for use as a primer under Acrylic, Epoxy and Polyurethane finish coats. It can be applied over abrasive blast cleaned surfaces or as a field maintenance primer. The zinc provides cathodic protection and film undercutting resistance to corrosion. It is a 3-component mix of Part A, Part B and Zinc with no induction time and a pot life of 7 hours.

Physical Properties

Property Description	Attribute	Property Description	Attributes
Viscosity	N/A	Weight Per Gallon	21.02
Gloss	Matte	Specific Gravity	2.5242
Flash Point	45 degrees F	Theoretical Coverage @1 mil dry: No loss assumed.	859 sq. ft. per gallon
Solids by Volume	53.6 (+/-) 2%	Solids by Weight	84.5 (+/-) 2%
Volatile Organic Content (V.O.C.) less exempt	3.26 # Per Gallon	Volatile Organic Content (V.O.C.) less exempt	389 Grams Per Liter
Hazardous Air Pollutants (H.A.P.s.)	1.76 # Per Gallon	Dry Time to Touch (@ 77 degrees F, 50% RH)	15 Minutes
Dry Time to Handle (@ 77 degrees F, 50% RH)	1-2 Hours	Dry Time to Recoat (@ 77 degrees F, 50% RH)	2-8 Hours

Dry Times

When multiple coats are applied, the dry time between coats depends upon film thickness, temperature and humidity. If the first coat is in the critical cure stage it may be lifted or blistered by the second coat. To test, apply a small swatch over first coat and observe for a few minutes. If no film distortion occurs, it is safe to recoat. When in doubt, allow one week before recoating.

Application

- **Preparation:** - Apply to properly cleaned or treated surface. This may consist of solvent wiping, wire brushing, sandblasting, phosphate treatment or chemical etching. All surfaces must be free of dust, oils and other surface contaminants before application.
- **Reduction:** T-35 Thinner
- **Method:** Spray, airless or Electrostatic if controlled. Application properties can be adjusted with special solvents
- **Recommended Dry Film:** 2.5 mils
- **Primer:** N/A
- **Temperature:** Ambient temperature above 50 deg. F

Clean Up

Recommended solvent for clean-up is Xylene however any strong Aromatic or Ketone solvent will work. Do not use Aliphatic solvents such as Mineral Spirits or Naphtha.

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