



ClovaPrime: 2.8 Epoxy Primer 83021

Description

Clovaprime 21 is a heavy duty, high performance polyamide epoxy primer with a long pot life that provides excellent corrosion resistance over both properly and marginally prepared steel. This rust inhibitive epoxy primer provides excellent weathering and chemical resistance as well as staying flexible even as it ages. Clovaprime 21 has a 6 month overcoat window and should be used wherever a long recoat is needed. Outstanding adhesion and application characteristics make Clovaprime 21 a great option for most substrates and projects that require an epoxy primer.

Coating Properties

Coating Category	Epoxy Primer
Mix Ratio	4:1
Pot Life @ 50% RH, 25°C (77°F)	8 hours
Induction Time	15 minutes at 25°C (77°F). Colder paint temperatures will require longer induction times.
Gloss	Low Gloss finish
In-service Temperature Limits	
Continuous:	93°C (200°F)
Intermittent:	120°C (250°F)
Product VOC (g/L)	<340 Mixed

Coverage Information

Volume Solids	56% May vary by base/color
Theoretical Coverage	892 ft ² /gal (21.9 M ² /L) @ 1 mil (25 microns) DFT These coverage rates are based on 100% transfer efficiency
Recommended Film Thickness	Wet: 4.0 - 5.0 mils (100 - 125 microns) Dry: 2.0 - 3.0 mils (50 - 75 microns)
Applied Coverage	<i>Actual coverage will vary depending on substrate and application method. Please contact your Cloverdale Industrial Representative for specific project recommendations.</i>

Approvals / Certifications

AWWA D102 - OCS 2, 6

Benefits

Chemical Resistant
Corrosion Resistant
VOC Compliant
Good Flexibility on Aging
Rust Inhibitive
Excellent Weathering

Markets / End-Uses

Bridges
Farm Machinery
Plant Maintenance
Process Equipment
Pulp & Paper
Storage Tank Exteriors
Structural Steel

Bases

83021A Grey
83021B Catalyst
83023A Red Oxide

Part B Products

83021B





Substrates and Surface Preparation

All surfaces must be clean, dry and free from loose mill scale, weld spatter, oils, grease, wax, dust or any other foreign contaminant affecting adhesion.

Minimum preparation as follows:

Ferrous: SSPC-SP 2/3 Hand/Power Tool Clean. SSPC-SP 6 Commercial Blast preferred.

Non-Ferrous: SSPC-SP 2/3 Hand/Power Tool Clean. SSPC-SP 16 Brush Off Blast preferred.

Galvanized: SSPC-SP 2/3 Hand/Power Tool Clean. SSPC-SP 16 Brush Off Blast preferred.

System Recommendations

Contact your Cloverdale Technical Representative for system recommendations.

Mixing Instructions

Part A to Part B

- Stir Part A and Part B separately.
- Slowly pour Part B into Part A while mixing well.
- After combining, continue mixing for several minutes more.
- Stir mixture again after induction time and add thinner if required.

Methods of Application

Application Parameters

Relative Humidity	Not to exceed 85%
Minimum Temperature	10°C (50°F)
Maximum Temperature	35°C (95°F)
Application Comment	<ul style="list-style-type: none"> • *If re coating after 6 months, lightly scuff the surface and SP-1 solvent wipe prior to top coating. • For application temperatures, outside of recommended min/max values, consult your Technical Sales Representative. • Please note that use of accelerator will shorten pot life. • Thinning is not recommended.

Equipment Settings

Airless Spray	Min. Fluid Capability	3000 psi
	Tip size	.017" - .021"
	Hose size	3/8" ID
Brush/Roll	<ul style="list-style-type: none"> • Lap marks may be visible. • Use solvent resistant equipment. 	

Substrates

Ferrous Metals
Non-Ferrous Metals
Old or Damaged Galvanizing

Thinner

C-70 Slow Evaporating
C-25 Fast Evaporating

Additives

A-65 Accelerator

Equipment Cleaning

C-25 Thinner

Product Weight

Part A: 10.37 lbs/gallon kit
Part B: 1.52 lbs/gallon kit

Shelf Life

2 years Part A
2 years Part B
Applicable only for material stored in unopened, undamaged factory filled containers stored at 4°C-38°C (39°F-100°F). Subject to reinspection.

Flash Point

-7°C (19°F) TCC

Package Size

1 gallon kit
5 gallon kits
Drum stock special order





Drying Times

Substrate Temperature	Touch Dry	Hard Dry	Overcoat Times
5°C (41°F)	4 hrs	48 hrs	see Rep
15°C (60°F)	2 hrs	36 hrs	see Rep
25°C (77°F)	1 hour	24 hrs	see Rep

Recoat Times

Substrate Temperature	Minimum	Maximum	Normal recoat
5°C (41°F)	6 hrs	* 6 Mths	8 hrs
15°C (60°F)	4 hrs	* 6 Mths	6 hrs
25°C (77°F)	1 hour	* 6 Mths	3 hrs

Performance Criteria

Standard	Method	Results
Abrasion Resistance	ASTM D 4060	41 mg Max; 1000gr; CS17 wheel; 1000 cycles
Adhesion	ASTM D 4541	900 psi minimum to Bondrite panels
Chemical Resistance:	ASTM D	Excellent
Flexibility:	ASTM D 522	8% elongation minimum
Humidity/Condensation:	ASTM D 4585	3000hrs. unaffected
Salt Spray (Fog):	ASTM B117	5000hrs
Impact resistance:	ASTM D 2794	44 inch - lbs minimum
Pencil Hardness:	ASTM D 3363	H - minimum

Typical Resistance (Non-Immersion)

Weather	Excellent	Salt Water	Good	Acids	Good
Moisture	Excellent	Fresh Water	Good	Alkalis	Excellent
Solvents	Good	Abrasion	Excellent	Oil	Excellent

Typical Resistance (Immersion)

Not recommended for immersion service





Safety Precautions

This product is for Industrial / Shop use only.

WARNING! If you scrape, sand or remove old lead paint from any surface you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information, Canadian customers contact the Product Safety division of Health Canada at 1-800-O-CANADA, US customers contact the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323).

WARNING! Use with Adequate Ventilation. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

WARNING! Proper breathing PPE must be worn during application. Refer to Safety Data Sheet for proper health and safety information, located at www.cloverdalepaint.com

Updates

Please visit www.cloverdalepaint.com for the most recent versions of Technical Data Sheets and Safety Data Sheets.

Last Modification date: 02/05/2021

LIMITATION OF LIABILITY

To the best of our knowledge, the technical data contained herein are true and accurate at the time of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. All technical advice, recommendations and services regarding this product are rendered by the Seller gratis. They are based on technical data which the Seller believes to be reliable and are intended for use by persons having skill and know-how, at their discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from this product use by Buyer whether as recommended herein or otherwise. Such recommendations, technical advice or services are not to be taken as a license to operate under or suggest infringement of any patent.

WARRANTY

Cloverdale Paint Inc. warrants its products to be free from defects in material and workmanship. At its option, Cloverdale Paint Inc. will either replace products not conforming to this warranty or credit the Buyer's account the invoiced amount for the non-conforming products. This is Cloverdale Paint Inc.'s sole obligation and Buyer's exclusive remedy in connection with the products. In no event shall Cloverdale Paint Inc. be liable for special, indirect, consequential or incidental damages.

By purchasing this product the Buyer accepts this warranty in lieu of all others, and waives all claims to any other remedy arising from any warranty or guarantee of quality, whether such warranty or guarantee of quality was made expressly to the Buyer or implied by any applicable law.

Any claim under this warranty must be made in writing by the Buyer to Cloverdale Paint Inc. within ten (10) days of discovery of the claimed non-conformance, but in no event later than one (1) year from the delivery date. The Buyer's failure to notify Cloverdale Paint Inc. of such non-conformance as required herein shall bar the Buyer from recovery under this warranty.

READ LABEL AND SAFETY DATA SHEET PRIOR TO USE.

