



PROTECTIVE COATINGS DATA SHEET

833 Series ClovaCoat 300

High Build Epoxy Coating

General Properties

A high build, high performance, gloss finish with excellent abrasion and stain resistance. This coating is resistant to a broad range of corrosive chemical and solvents. ClovaCoat 300 is a two component product with base 833 Series "A" and converter 83300 "B" supplied in separate containers.

This product meets the requirements for the Canadian General Standards Board CAN/ CGSB 1.153-M90.

Recommended Uses

For use on tank exteriors or structural equipment for protection from chemical splash or spill. Also recommended for use on block or plaster board where a chemical resistant high gloss finish is desired. This product is generally used in conjunction with a suitable primer.

Product Information

Generic Type:

Polyamide Cured Epoxy

Color:

White and Selected Colors

Finish:

High Gloss

Average Volume Solids:

60%

Average Weight Solids:

74%

Recommended Mils Per Coat:

4 - 6 mils Dry

7 - 10 mils Wet

Theoretical Coverage:

961 sq. ft./gal. @ 1 mil Dry Film Thickness

24 m²/L @ 25 microns Dry Film Thickness

Actual Coverage will be less due to job conditions, type of substrate, loss in can and efficiency of application equipment.

Mixed Ratio 4:1:

4 parts 833 Series "A": 1 part 8300 "B"

Induction Time:

15 minutes @ 77°F (25°C)

Pot Life:

8 hours at 75°F (24°C), Less at higher temperatures

Viscosity Mixed:

100 - 105 K.U.

Temperature Resistance (Dry):

200°F (93°C) Continuous

250°F (120°C) Intermittent

V.O.C. Mixed:

407 g/L (3.39 lbs./gal.)

Maximum Thinning To Obtain VOC of 420 gm/L

(3.5 lbs./gal.):

25mL (3.2 fl.oz./gal.)

Thinner:

C-70 Slow Evaporating or C-25 Fast Evaporating

Clean Up:

C-25 or C-70

Accelerator:

#A-65 **CAUTION! REFER TO DATA SHEET**

Methods of Application

Airless Spray

Speeflo Commander 45:1 with tip sizes .017" - .021" or equivalent

H.V.L.P.

Binks Model Mach 1 94 x 97AP (pressure) or equivalent

Conventional

Binks Model 95GUN 6CSS x 63PW (pressure) or equivalent

Brush/Roller

May be used, however a thinner film will result with some compromise to flow.

Drying Time

Substrate Temperature	Touch Dry	Hard Dry	Overcoat Interval		
			Minimum	Maximum	Normal
77°F (25°C) Do not apply below 50°F (10°C)	1 hour	24 hours	3 hours	7 days	24 hours

Recommended Primer

Steel	83021 ClovaPrime 21/ 83040 C-113 Non-Lifting Primer/ ClovaZinc Primers/ Self Priming
Aluminum	83050 EtchPrime 50 Vinyl Wash Primer
Concrete	Self-priming
Galvanized	83050 EtchPrime 50 Vinyl Wash Primer

Surface Preparation

Surface to be coated must be clean, dry and free from loose mill scale, weld spatter, oil, grease or other contaminants. New concrete must be aged a minimum of 28 days, then tested for moisture before proceeding. Acid etch, rinse and allow to dry before coating. Surface hardened concrete should be mechanically abraded to provide adequate coating adhesion. Consult your sales representative when in doubt or for other substrate not mentioned here.

Typical Resistance (Non-Immersion)

WEATHER	Good (dark colors will chalk)	SALT WATER	Good	ACIDS	Good (splash & Spill)
MOISTURE	Excellent	FRESH WATER	Good	ALKALIS	Excellent
SOLVENTS	Excellent	ABRASION	Very Good	OIL	Excellent

Limitations

Not recommended for immersion service. Darker colors will chalk and lose gloss considerably on exposure to sunlight. This will not affect product performance. Discoloration is expected with higher temperature exposure. For best results apply when substrate temperature is above 50°F (10°C), and at a minimum of 5°F (3°C) above the dew point. Do not apply when the relative humidity is above 85%.

Mixing Instructions

Mix base and curing agent separately with good agitation. Add converter or curing agent to base component and mix thoroughly until homogenous. Allow to react in can for 15 minutes (induction time). Reduce as required for application. In cool weather, product will perform better if kept at room temperature. 70° - 80°F (21° - 26°C)

Safety Precautions

This product is for industrial use only. **Refer to Material Safety Data Sheet for proper health and safety information.**

Note

When applying over ClovaZinc 2 Inorganic Zinc Rich Primer a first coat of ClovaCoat 300 thinned 50% is recommended as a tie coat to insure good intercoat adhesion.

Storage and Handling

Flash Point	19°F (-7°C) T.C.C.
Product Weight	A= 9.37 lbs. B= 1.58 lbs./U.S. gallon, container extra
Storage	See your Cloverdale Paint Representative
Package Size	1 gallon kit 3.02 L 833A Series .76 L 83300B 5 gallon kit 15.12 L 833A Series 3.78 L 83300B

Warranty Disclaimer

Cloverdale Paint manufactures quality products. In the event that this product is defective or in any way unsuitable for the application for which it is sold, Cloverdale Paint Inc. will replace the product free of charge. The warranty provided by this data sheet is the only warranty or guarantee of quality made in respect of this product by Cloverdale Paint Inc. By purchasing this product the customer 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 customer or implied by any applicable law.

ClovaCoat 300 PERFORMANCE CRITERIA

1. Abrasion Resistance

Method - ASTM D4060 Abrasion Resistance of Organic Coating by Taber Abrader, 1000 gr/load, CS10 Wheel, 1000 Cycles
Coating System – ClovaCoat 300, (1 coat)
Requirements – Not more than 58 mg loss

2. Adhesion

Method – ASTM D4541, Elcometer Adhesion Test
Coating System – ClovaCoat 300, (1 coat)
Requirements – Not less than 500 psi

3. Chemical Resistance

Method - Covered spot test for 1 week at room temperature
Coating System – ClovaCoat 300, (1 coat)
Coating Was Exposed To - 5% Sodium Hydroxide Solution; 5% Sulfuric Acid Solution; 5% Hydrochloric Acid; 5% MonoBasic Sodium Phosphate Solution; 5% Sodium Hypochlorite Solution; Heavy Duty Liquid Detergent
Requirements – Unaffected - slight discoloration permitted

4. Recoating Window

Method - ASTM D4541, Elcometer Adhesion Test
Coating System – ClovaCoat 300 on ClovaCoat 300, (2 coats)
Requirements – Best between 1 day to 30 days

5. Salt Spray (Fog)

Method - ASTM B117
Coating System – ClovaCoat 300, (1 coat)
Requirements – After 1000 hours, no blistering, cracking or delamination of film. No more than 3/16 inch rust creepage at scribe.

6. Flexibility

Method - ASTM D522, Cylindrical Mandrel Bend Test
Coating System – ClovaCoat 300, (1 coat)
Requirements – Not less than 34% Elongation

7. Pencil Hardness

Method - ASTM D3363
Coating System – ClovaCoat 300, (1 coat)
Requirements – Minimum H



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IN-H30-0020v1

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