



ClovaCoat 330

High Build Epoxy Coating

COMPLIANCE INDICATORS	
At June 11, 2015	
MPI	177
Environment Canada	Category 25
Canadian Food Inspection Agency	d1, d2, d3*

*non-direct contact to walls, ceilings, floors and structural members

General Properties

A high build, high performance, semi-gloss finish with excellent abrasion and stain resistance. This coating is resistant to a broad range of corrosive chemicals and solvents. ClovaCoat 330 is a two component product with base 8333 series A and converter 83330B supplied in separate containers at a 4:1 volume ratio. This product meets the requirements of MPI Categories #177 Epoxy, Semi Gloss (gloss level #5) .

Recommended Uses

For use as part of a primer /topcoat system on tank exteriors or structural equipment for protection from chemical splash or spill. Also recommended for use on block or plaster board walls or on concrete floors such as warehouses, factories, carports and garages where a chemical resistant semi-gloss finish is desired.

Product Information

GENERIC TYPE	Polyamide Epoxy
PIGMENT TYPE	Titanium Dioxide and Inert Pigments
COLOR	White, Black and Custom Colors
BASES	83330 White, 83331 Deep, 83333 Clear
FINISH	MPI gloss level 5 (35-70)
AVERAGE VOLUME SOLIDS	58%
AVERAGE WEIGHT SOLIDS	74%
RECOMMENDED FILM THICKNESS	Wet: 5 - 10 mils Dry: 3 - 6 mils See your Cloverdale Representative for project recommendations.
THEORETICAL COVERAGE	932 ft ² /gal @1 mil (25 microns) DFT 22.8 m ² /L @ 1 mil (25 microns) DFT Actual coverage may vary depending on substrate and application methods.

MIXED RATIO	4 parts 83330 series A: 1 part 83330B
INDUCTION TIME	15 minutes at 25°C (77°F)
POT LIFE	16 hours at 24°C (75°F) (less at higher temperatures)
VISCOSITY MIXED	85 - 90 K.U.
TEMPERATURE RESISTANCE (DRY)	93°C (200°F) Continuous 120°C (250°F) Intermittent
V.O.C. MIXED	<340 gm/lit.
THINNER	C-70 Slow Evaporating C-25 Fast Evaporating
ACCELERATOR	A-65

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 68CSS X 68PB (pressure) or equivalent
BRUSH / ROLLER	May be used but a uniform finish may be difficult to obtain.

Drying Time - Temperature, Relative Humidity, and Film Thickness will affect dry and re-coat times.

Substrate Temperature	Touch Dry	Hard Dry	Minimum	Overcoat Interval	
				Maximum	Normal
25°C (77°F)	5 hours	8 hours	5 hours	7 days	8 hours
15°C (60°F)	8 hours	24 hours	8 hours	7 days	24 hours
5°C (41°F)	15 hours	40 hours	15 hours	7 days	30 hours

Recommended Primer

STEEL	83021 ClovaPrime 21/ 83040 Universal Phenolic Primer/ ClovaZinc Primers/ Self Priming in non-corrosive environments.
CONCRETE	Self Priming
GALVANIZED	83021 ClovaPrime 21 or other suitable epoxy primer
ALUMINUM	83021 ClovaPrime 21 or other suitable epoxy 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 substrates not mentioned here.

Typical Resistance (Non-Immersion)

WEATHER	Dark colors will chalk	SALT WATER	GOOD	ACIDS	Splash or spill only
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 considerable gloss 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 10°C (50°F), and at a minimum of 3°C (5°F) 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). If thinning is necessary or required, proceed only after recommended induction time has passed. Product will perform better if kept at room temperature; 21° - 26°C (70° - 80°F).

Safety Precautions

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

Storage and Handling

FLASH POINT	-7°C (19°F) TCC
PRODUCT WEIGHT	A = 10.94 lbs B = 1.58 lbs/gal (container extra)
STORAGE	Cool, dry, secure location. See your Cloverdale Paint Representative.
PACKAGE SIZE	1 gallon kit: 3.02 L 8333 series A, 0.76 L 83330B 5 gallon kit: 15.12 L 8333 series A, 3.78 L 83330B

Some package sizes or colors may be by special order only. Please check with your Cloverdale Representative when ordering.

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.

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ClovaCoat 330 PERFORMANCE CRITERIA

1. Abrasion Resistance

Method: ASTM D4060 Abrasion Resistance of Organic Coating by Taber Abrader, 1000 gram load, CS-10 Wheel, 1000 Cycles

Coating System: ClovaCoat 330, (1 coat)

Results: Not more than 101 mg loss

2. Adhesion

Method: ASTM D4541, Elcometer Adhesion Test

Coating System: ClovaCoat 330, (1 coat)

Results: Not less than 1500 psi

3a. General Chemical Resistance

Method: Covered spot test for 1 week at room temperature

Coating System: ClovaCoat 330, (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

Results: Unaffected - slight discoloration permitted

3b. MPI 177 Chemical Resistance

Method: Covered spot test

Coating System: ClovaCoat 330, (1 coat)

Chemical	Exposure Time	Rating
5% Sulphuric Acid	1 hour	Pass
15% Hydrochloric Acid	1 hour	Pass
20% Sodium Hydroxide	1 hour	Pass
Aliphatic Hydrocarbon Solvent	2hours	Pass
Methyl Alcohol	1 hour	Pass
Motor Oil (10 W 30)	2 hours	Pass
Vegetable Oil	2 hours	Pass

Results: Unaffected - slight discoloration permitted

Check for recent amendments to this data sheet at www.cloverdalepaint.com

4. Recoating Window

Method: ASTM D4541, Elcometer Adhesion Test

Coating System: ClovaCoat 330 on ClovaCoat 330 (2 coats)

Results: Best between 1 day to 30 days

5. Salt Spray (Fog)

Method: ASTM B117

Coating System: ClovaCoat 330, (1 coat)

Results: 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 330, (1 coat)

Results: Not less than 8% elongation

7. Pencil Hardness

Method: ASTM D3363

Coating System: ClovaCoat 330, (1 coat)

Results: Minimum H Hardness

8. Impact Resistance

Method: ASTM D2794

Coating System: ClovaCoat 330, (1 coat)

Results: Not less than 60 inch-pounds



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