



ClovaTar 22

Coal Tar Epoxy

General Properties

ClovaTar 22 is a high build, (16 to 18 mils per coat) abrasion and chemical resistant coating that provides outstanding protection for steel or concrete in harsh environments. The high build capability allows for one coat application and substantially lower applied labor costs. Suitable for sustained immersion in fresh or salt water and certain other industrial chemicals. Not suitable for potable water service. ClovaTar 22 is a two component product with base 83022 A and converter 83022 B supplied in separate containers. A rust inhibitive primer is recommended for steel surfaces where superior corrosion resistance is required. ClovaTar 22 meets the performance requirements on and is approved under MPI #35 Bituminous Coatings.

Recommended Uses

Typical areas of use are ship hulls, pilings, below grade tanks, waste treatment facilities, process equipment, clarifiers and other areas where maximum resistance to corrosion and abrasion are required.

Product Information

GENERIC TYPE	Polyamide Coal Tar Epoxy
PIGMENT TYPE	Selected Inert Pigments
COLOR	Black
BASES	N/A
FINISH	Semi Gloss
AVERAGE VOLUME SOLIDS	75%
AVERAGE WEIGHT SOLIDS	84%
RECOMMENDED FILM THICKNESS	Wet: 21 - 24 mils Dry: 16 - 18 mils See your Cloverdale Representative for project recommendations.
THEORETICAL COVERAGE	1281 ft ² /gal @1 mil (25 microns) DFT 31.4 m ² /L @ 1 mil (25 microns) DFT Actual coverage may vary depending on substrate and application methods.

MIXED RATIO	4 parts 83022 A: 1 part 83022 B
INDUCTION TIME	15 minutes at 25°C (77°F)
POT LIFE	6 hours at 24°C (75°F) (less at higher temperatures)
VISCOSITY MIXED	100 - 105 K.U.
TEMPERATURE RESISTANCE (DRY)	93°C (200°F) Continuous 120°C (250°F) Intermittent
V.O.C. MIXED	213 g/L (1.77 lbs/gal)
MAXIMUM THINNING TO OBTAIN V.O.C. OF 420 g/L (3.5 LBS/GAL)	379.1 ml/L (12.82 fl. oz/gal)
THINNER	C-70 Slow Evaporating C-25 Fast Evaporating
ACCELERATOR	N/A

Methods of Application

AIRLESS SPRAY	Speeflo Commander 45:1 with tip sizes .021" - .023" or equivalent
H.V.L.P.	Binks Model Mach 1 905 x 905AP (pressure) or equivalent
CONVENTIONAL	Binks Model 95GUN 63SS X 63PB (pressure) or equivalent
BRUSH / ROLLER	Brushing is limited to small areas or touch-up

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
32°C (90°F)	5 hours	20 hours	20 hours	40 hours	20-32 hours
25°C (77°F)	6 hours	24 hours	24 hours	48 hours	24-36 hours
15°C (10°F)	10 hours	32 hours	32 hours	56 hours	32-48 hours

Recommended Primer

STEEL	Self Priming/ ClovaPrime 21/ 83001 ClovaZinc 1/ 83002 ClovaZinc 2
CONCRETE	Self--priming (see Surface Prep)
GALVANIZED	Self--priming (see Surface Prep)
ALUMINUM	Self--priming (see Surface Prep)

Surface Preparation

Surface to be coated must be clean, dry and free from loose mill scale, weld spatter and other contamination. For maximum performance, preparation to an SSPC-SP6 Commercial Blast Cleaning is recommended. For immersion service, prepare to an SSPC-SP10 Near White Blast Cleaning. Blast surfaces must be coated before flash rusting is allowed to occur. Concrete must be dry and aged a minimum of 28 days. Acid etch or sweep blast to provide a profile on smooth concrete or non-ferrous metals.

Typical Resistance

WEATHER	GOOD	SALT WATER	EXCELLENT	ACIDS	GOOD
MOISTURE	EXCELLENT	FRESH WATER	EXCELLENT	ALKALIS	EXCELLENT
SOLVENTS	GOOD	ABRASION	EXCELLENT	OIL	EXCELLENT

Limitations

Not suitable for potable water. 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 relative humidity is above 85%. Immersion service in salt or fresh water requires a pinhole free dry film thickness of 16 to 18 mils. Coating must be fully cured before being placed into immersion service. Do not exceed maximum overcoat intervals. Consult with your Cloverdale Paint Representative on the overcoat interval that matches your application conditions as maximum overcoat intervals are reduced with increased temperatures.

Mixing Instructions

Mix base A and curing agent B separately with good agitation. Add converter B 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. In cool weather, 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 = 9.52 lbs B = 1.56 lbs/gal (container extra)
STORAGE	Cool, dry, secure location. See your Cloverdale Paint Representative.
PACKAGE SIZE	1 gallon kit: 3.02 L 83022A, 0.76 L 83022 B 5 gallon kit: 15.12 L 83022 A, 3.78 L 83022 B

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.

Cloverdale Paint Inc.

6950 King George Boulevard, Surrey, British Columbia, Canada V3W 4Z1
 Web Site: www.cloverdalepaint.com Email: helpdesk@cloverdalepaint.com
 Phone: 604 596 6261 Fax: 604 597 2677

ClovaTar 22 PERFORMANCE CRITERIA

1. Abrasion Resistance

Method: ASTM D4060 Abrasion Resistance of Organic Coating by Taber Abrader, 1000 gram load, CS-17 Wheel, 1000 Cycles

Coating System: ClovaTar 22, (1 coat)

Results: Not more than 83 mg loss

2. Adhesion

Method: ASTM D4541, Elcometer Adhesion Test

Coating System: ClovaTar 22, (1 coat)

Results: Not less than 500 psi

3. Impact Resistance

Method: ASTM D2794

Coating System: ClovaTar 22, (1 coat)

Results: No less than 44 inch pounds

4. Salt Spray (Fog)

Method: ASTM B117

Coating System: ClovaTar 22, (1 coat)

Results: After 1000 hours, no blistering, cracking or delamination of film. Not more than 5/8" rust creepage at scribe

5. Flexibility

Method: ASTM B117

Coating System: ClovaTar 22, (1 coat)

Results: Not less than 11% elongation

6. Pencil Hardness

Method: ASTM D3363

Coating System: ClovaTar 22, (1 coat)

Results: Minimum F Hardness

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



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