

Selection & Specification Data

Generic Type Amine-Cured Novolac Epoxy

DescriptionGlass flake-filled coating with dense cross-linking that exhibits excellent overall chemical

resistance to a variety of aggressive chemicals. Glass reinforcement provides added abrasion resistance, permeation resistance and internal reinforcement. 1205 exhibits very good acid resistance. Excellent for use as a lining for tanks or pipes in process facilities where hot water or abrasive conditions exist. Also used as a primary or secondary containment lining for a variety of

aggressive chemicals.

Features • Excellent resistance to acids, caustics,

ethanol, gasoline, jet fuels and solvents.

Excellent abrasion resistance.

Excellent thermal shock resistance.
 VOC compliant to current AIM regulations

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 Excellent resistance to deionized or demineralized water up to 200°F (93°C) continuous.

■ Excellent resistance to crude oil up to 200°F

(93°C).

Color Red (0500); Gray (5742)

Finish Satin

Primers Self-priming. May be applied over epoxies and

phenolics as recommended.

Topcoats Not recommended

Dry Film 15.0 mils (375 microns) minimum to be achieved

Thickness in 1 or 2 coats.

Solids Content $70\% \pm 2\%$

Theoretical 1117 mil ft² (27.9 m²/l at 25 microns) **Coverage Rate** Allow for loss in mixing and application.

VOC Values As supplied: 2.08 lbs/gal (250 g/l)

Thinned:

13 oz/gal w/ #213: 2.58 lbs/gal (308 g/l) 13 oz/gal w/#2 2.54 lbs/gal (305 g/l)

These are nominal values.

Dry Temp.Continuous:425°F (218°C)ResistanceNon-Continuous:450°F (232°C)

Discoloration is observed above 200°F (93°C).

Temperature Water/Brine: 200°F
Resistance (Immersion*) Crude Oil: 200°F
Crude Oil/Water: 200°F

Demineralized water: 180°F

Ethanol: 130°F

*Linings exposed to cargos warmer than the outside steel temperature are subject to a "cold-wall" effect. The smaller the temperature differential, the less negative influence on performance.

Substrates & Surface Preparation

General Surfaces must be clean and dry. Employ

adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with

adhesion of the coating.

Steel Immersion: SSPC-SP10

Non-Immersion: SSPC-SP6

Surface Profile: 2.0-3.0 mils (50-75 micron)

Concrete Concrete must be cured 28 days at 75°F (24°C)

and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258-92 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may

require surfacing.

Performance Data

Test Method	System	Results	Report #
Temperature Cycling Test Modified Freeze/Thaw test cycling from 0°F – 425°F for 11 days	Blasted steel 2 cts	No blistering, cracking or checking. No delamination or loss of adhesion.	SR 332
Cyclic Steam- Out Simulation 300°F	Blasted steel 1 ct	No blistering, cracking, or delamination	03744

Test reports and additional data available upon written request.

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results

General Guidelines:

Spray The following spray equipment has been found **Application** suitable and is available from manufacturers such

(General) as Binks, DeVilbiss and Graco.

Conventional Pressure pot equipped with dual regulators, ½" I.D. **Spray** minimum material hose, .110" I.D. fluid tip and

appropriate air cap.

Airless Spray Pump Ratio: 45:1 (min.)*

GPM Output: 3.0 (min.)

Material Hose: ½" I.D. (min.)

Tip Size: .035-.041"

Output PSI: 2200-2500

*Teflon packings are recommended and available

from the pump manufacturer.

Brush Recommended for touch up and striping of welds

only. Use a natural bristle brush with full strokes.

Avoid rebrushing.

Roller Not recommended.

Mixing & Thinning

Mixing Power mix separately, then combine and power mix.

DO NOT MIX PARTIAL KITS.

Ratio 4:1 Ratio (A to B)

May be thinned up to 13 oz/gal (10%) Thinner #213. **Thinning**

For application on horizontal surfaces, may be thinned up to 13 oz/gal (10)% with Thinner #2. Agitate Thinner #213 before use. Thinner #213 will have a thick viscous appearance, which is normal. Use of thinners other than those supplied by Carboline may adversely affect product performance and void product warranty, whether expressed or

implied.

Pot Life 3 Hours at 75°F (24°C)

> Pot life ends when coating loses body and begins to sag. Pot life times will be less at higher

temperatures.

Cleanup & Safety

Use Thinner #2 or Acetone. In case of spillage, Cleanup absorb and dispose of in accordance with local

applicable regulations.

Safety Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive

persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after

application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all

application personnel.

Caution This product contains flammable solvents. Keep away

from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive

and non-sparking shoes.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	65°-85°F	65°-85°F	65°-85°F	30-60%
	(18°-29°C)	(18°-29°C)	(18°-29°C)	30-00%
Minimum	55°F	50°F	50°F	0%
	(13°C)	(10°C)	(10°C)	0 /6
Maximum	90°F	110°F	100°F	85%
	(32°C)	(43°C)	(38°C)	65%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Handle	Dry to Recoat or Topcoat	Final Cure for Immersion & Maximum Recoat Times
50°F (10°C)	18 Hours	48 Hours	21 Days
60°F (16°C)	12 Hours	32 Hours	14 Days
75°F (24°C)	6 Hours	16 Hours	7 Days
90°F (32°C)	3 Hours	8 Hours	4 Days

These times are based on a 15.0 mil (375 micron) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before recoating. If the maximum recoat time is exceeded, the surface must be abraded by sweep blasting prior to the application of additional coats. For force curing, contact Carboline Technical Service for specific requirements.

Packaging, Handling & Storage

Shipping Weight 1 Gallon Kit 5 Gallon Kit (Approximate) 12 lbs (5.5 kg) 58 lbs (26.3 kg)

Flash Point (Setaflash) Part A: 53°F (12°C)

200°F (93°C) Part B:

Storage (General) Store Indoors.

Storage Temperature 40° - 110°F (4° - 43°C) & Humidity 0-90% Relative Humidity

Shelf Life Part A & B: Min. 36 months at 75°F (24°C)

*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.



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