

SELECTION & SPECIFICATION DATA

Generic Type	Glass Flake-Filled Epoxy Phenolic Lining
Description	A self-priming amine-cured, epoxy phenolic, glass flake-filled coating designed for use in highly corrosive environments where abrasion and chemical resistance is required. This product also exhibits excellent heat resistance.
Features	<ul style="list-style-type: none"> • Excellent overall chemical resistance • Easily applied by spray • Acceptable for use over stainless steel • Excellent barrier protection
Typical Uses	<ul style="list-style-type: none"> • Chemical storage tanks • Under insulation on carbon and austenitic stainless steel • Chemical Plants • Pipe exteriors
Color	Medium Grey (0766), Light Grey (0725), Tile Red (6562)
Primer	Self-priming
Dry Film Thickness	3 - 7 mils (76 - 178 microns) per coat Two coats at 10-14 mils total DFT are required for immersion service.
Solids Content	By Volume 65%
Theoretical Coverage Rate	1043 ft ² /gal at 1.0 mils (25.6 m ² /l at 25 microns) 348 ft ² /gal at 3.0 mils (8.5 m ² /l at 75 microns) 149 ft ² /gal at 7.0 mils (3.7 m ² /l at 175 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 2.7 lbs/gal (323.5 g/l) Thinned 5%: 2.95 lbs/gal (353.5 g/l)
Dry Temp. Resistance	Continuous: 400°F (204°C)
Chemical Resistance	<ul style="list-style-type: none"> • Sour and sweet crude • Wastewater/salt water • Methyl tert-Butyl Ether (MTBE) • Weak acids/weak caustics (PH 2.5-11) • Most aliphatic and aromatic compounds

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 and heavy spillage service: White Metal, SSPC SP 5 or NACE 1, minimum 3.0 mil profile. Heavy non-immersion service (i.e. fumes and spillage): Near white, SSPC SP 10 or NACE 2, minimum 2.0 mil profile. Atmospheric service: Commercial SSPC SP 6 or NACE 3, minimum 2.0 mil profile.

Protecto-Coat EPG

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Non-Ferrous Metals

Prepare by abrasive blasting to SSPC-SP 17 Thorough Abrasive Blast to a minimum of 3 mils (75 microns) dense angular anchor profile.

MIXING & THINNING

Mixing

Mechanically mix part A until a uniform color is achieved. Slowly add the part B. Mix for 1-2 minutes. Allow a 5-10 minute induction time before applying.

If needed, thin 5% with Carboline Thinner 10 or Thinner 221 or a 50/50 blend of both. No other thinner is recommended without approval from Dudick's technical department.

Ratio

9:1 by volume (A:B)

Pot Life

2 hours @ 77°F (25°C)

1 hour @ 90°F (32°C)

APPLICATION EQUIPMENT GUIDELINES

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.

Airless Spray

Pump Ratio: 30:1 (min)*
GPM Output: 2.5 (min)
Material Hose: 3/8" ID (min)
Tip Size: 0.017-0.021"
Output PSI: 1500-2300
Filter Size: 60 mesh

Brush & Roller (General)

Roll: Solvent resistant ¼" nap roller. Keep roller wet. Roll in one direction.
Brush: Use a solvent resistant brush for edges and details.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	90°F (32°C)	110°F (43°C)	110°F (43°C)	85%

Substrate temperature must be 5°F (3°C) above the dew point.

CURING SCHEDULE

Surface Temp.	Dry to Touch	Minimum Recoat Time	Maximum Recoat Time	Cure for Service
77°F (25°C)	4 Hours	6 Hours	3 Days	7 Days

Cure times are listed @ 4-5 mils.

Force Cure

- 14 hours @ 140°F (60°C)
- 10 Hours @ 160°F (71°C)
- 6 Hours @ 180°F (82°C)
- 4 Hours @ 200°F (93°C)

CLEANUP & SAFETY

Cleanup	Use S-10 solvent or Carboline Thinner 2 to clean equipment.
Safety	Read and follow all caution statements on this product data sheet and on the SDS. Employ normal safety precautions. Keep container closed when not in use.
Ventilation	Ventilation 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. User should test and monitor exposure levels to insure all personnel are below guidelines. Use MSHA/NIOSH approved air respirators as needed.
Caution	Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all Ignitions sources. 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, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Packaging	1 Gallon Kits: Part A: 0.9 Gallons (in a 1 gal can) Part B: 0.1 Gallon (in a 1 pint can) 5 Gallon Kits: Part A: 4.5 Gallons (in a 5 gal pail) Part B: 0.5 Gallons (in a 3.5 gal pail)
Shelf Life	Part A: 12 months Part B: 12 months
Storage	Warning: All Dudick products classified with DOT labels as either white, yellow or red labels must not be mixed or stored together as an explosive reaction can occur. All products should be stored in a cool, dry area away from open flames, sparks or other hazards.
Shipping Weight (Approximate)	1 gallon kits: 14.0 lbs 5 gallon kits: 60.5 lbs

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.