



**HPC/Industrial Maintenance**

**COAL CAT® Amine-Cured Coal Tar Epoxy Coating**

**Generic Type**

Amine-Epoxy Coal Tar Two Component

**Tinting and Base Information**

Black	
97-642	Component A- Black
97-643	Component B

**General Description**

Recommended as a heavy industrial coating for immersion and environmental resistance to fresh and salt water, many organic and inorganic acids, inorganic bases and salts, crude oils, petroleum and petro-chemical products, oil brines, sewage water, hydrogen sulfide liquids and fumes.

**Recommended Uses**

- Concrete
- Metal
- Galvanized Metal

**Features / Benefits**

Stands up to most hostile and corrosive environments  
Recommended for immersion service.  
Perfect for tanks, pipes and structural steel in heavy industrial areas.

**Limitations of Use**

DO NOT USE FOR POTABLE WATER. Not intended for residential use. Apply only when air, surface or product temperatures are above 50°F (10°C) and surface temperatures are at least 5°F (3°C) above the dew point. Coatings containing coal tar will exhibit bleeding when any attempt is made to topcoat them with products containing aromatic or oxygenated solvents. This product will chalk and discolor upon exposure to sunlight. It does not alligator or crack as do bituminous materials under these exposure conditions.

**Product Data**

**Gloss:** Medium to low gloss  
**VOC\*:** 2.20 lbs/gal 264.00 g/L  
**Coverage:** 160 to 187 sq ft/gal (15 to 17 sq. m/3.78L)  
*Note: Does not include loss due to varying application method, surface porosity, or mixing.*  
**DFT:** 6.0 minimum to 7.0 maximum  
**Weight/Gallon\*:** 10.9 lbs. (5.0 kg) +/- 0.2 lbs. (91 g)  
**Volume Solids\*:** 69.4% +/- 2%  
**Weight Solids\*:** 79.8% +/- 2%  
**Mix Ratio:** By vol 19 parts Comp. A to 1 part Comp. B  
**Clean-up:** Methyl Ethyl Ketone or 97-725

Results will vary by color, thinning and other additives.

\*Product data calculated on mixed product

**Drying Time:**

To Touch:	4 hours
To Handle:	8 hours
To Recoat:	16 hours- max. 48 ho

Dry Time @77°F (25°C); 50% relative humidity

**Pot Life:** 4 hours

**In Service Temperature:**

Dry Heat (F): 400° Dry Heat (C): 204°

**Flash Point:** 97-642 84°F, (29°C)  
97-643 92°F, (33°C)

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## General Surface Preparation

Remove all loose paint, mill scale, and rust. The surface to be coated must be dimensionally stable, dry, clean, and free of oil, grease, release agents, curing compounds, and other foreign materials.

**NON-IMMERSION SERVICE:** The minimum surface preparation for substrates is SSPC-SP6 Commercial Blast cleaning. Service life of coating is in direct proportion to surface preparation.

**IMMERSION SERVICE:** Near White Metal Blast SSPC-SP10, is mandatory. The surface to be coated must be clean, dry, and well prepared to receive the coating.

HPC Systems in Detail Brochure (H10788) COATING SYSTEMS: 4-HD, 6-HD, 46-HD, 200-HD

For specific recommendations, see your Pittsburgh® Paints dealer or call 1-800-441-9695.

## Recommended Primers

none Self priming on properly prepared surfaces.

## Application Information

**Recommended Spread Rates:**

Wet Mils :	8.6	minimum to	10.0	maximum
Wet Microns:	218.4	minimum to	254.0	maximum
Dry Mils :	6.0	minimum to	7.0	maximum
Dry Microns:	152.4	minimum to	177.8	maximum

**Application Equipment:** Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions.

**Conventional Spray:** Fluid Nozzle: DeVilbiss MBC-510 gun, with 704 or 777 air cap with D or E tip and needle, or comparable equipment. Atomization Pressure: 55 - 70 Fluid Pressure: Can not specify, dependent on numerous factors.

**Airless Spray:** Pressure 3000 psi, tip 0.017" - 0.025"

**Brush:** High Quality Natural Bristle Brush

**Roller:** Not Recommended.

**Thinning:**

Where permitted by local VOC regulations the following thinning recommendations may be used.

Conventional Spray up to 12 oz. per gallon with 97-725 Thinner

Airless Spray up to 12 oz. per gallon with 97-725 Thinner

Brush up to 64 oz. per gallon with 97-725 Thinner

Roller not applicable

## Directions for Use

The 97-642 should be thoroughly agitated with a mechanical mixer before and during the time the curing agent, 97-643, is being added. After the two components are thoroughly mixed and blended, allow the material to digest for 30 minutes or longer before use. Conventional air or airless spray application recommended. Read all label and Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our website or by calling 1-800-441-9695.

**Permissible temperatures during application:**

Material:	50 to 90°F	10 to 32°C
Ambient:	50 to 100°F	10 to 38°C
Substrate:	50 to 100°F	10 to 38°C

PPG AF believes the technical data presented in this bulletin is currently accurate; however, no guarantee of accuracy, comprehensiveness, or performance is given or implied. Improvements in coatings technology may cause future technical data to vary from what is in this bulletin. For complete, up-to-date information visit our web site or call 1-800-441-9695

**Packaging:** 5-Gallon (18.9L)

Quart (946 mL)

Not all products are available in all sizes.



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**Bulletin: 97-642**

Additional copies of this bulletin can be obtained from our web site or by calling 1-800-428-7806.

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