



IPA SYSTEMS

FARBERTITE

Water-based Coal Tar Coating



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QUALITY PRODUCTS FOR THE CONCRETE /MASONRY REPAIR INDUSTRY

Description

Farbertite is a coal tar compound containing an inert mineral filler and a corrosion inhibitor suspended in a water-based system. It contains no asphaltic material, resin, acid, caustic alkali, sulfur or compounds of sulfur. It contains no volatile ingredients that are toxic.

Where to Use

Farbertite is a versatile coating for protecting concrete or metals in aggressive environments. It will seal and protect many different surfaces from water and salt penetration as well as common acids and alkalis.

Advantages

- ◆ Made in America
- ◆ Dries to provide a tough continuous durable flexible coating for metals, concrete and many other materials.
- ◆ Bonds permanently to any clean surface, damp or dry, and is applied without the aid of a primer.
- ◆ Easy to apply, can be sprayed (air or airless), brushed, rolled or dip coated.
- ◆ Versatile: can be used for many different applications,

Packaging

Available in 5 gallon (18.9 L) pails and 55 gallon (208.2 L) drums
 Shelf Life: One year in unopened container. Do not expose to freezing.
 Color: brownish black in color when fully cured.

Technical Data

Meets U.S. Federal Military Specification Mil C 15203C (Docks)

Specific Gravity:	1.2	
Weight per Gallon:	10 lbs. (4.5 kg)	
pH:	6.2	
Viscosity:	96 (k.u.)	(Stormer Viscometer @ 77°F) (Reid @ 25°C)
Vapor Pressure:	3 psi (20.7 kPa)	ASTM D 323
Flash Point:	268°F (131.1°C)	ASTM D 92 open cup
Fire point:	598°F (314.4°C)	
Resistance to flow with heat:	No slide to 120°F	ASTM D466
Sag:	None at application temperatures up to 120°F (44.4°C), resistance to heat cure up to 300°F (144.4°C)	
Electrical Insulation:	3,300 ohms, 1 mil (25.4 µm) thickness resists 600 volts (resistivity per cm thickness)	
Vapor Barrier:	Excellent	
Welding Test:	Excellent (using coated metal plates)	
Flexibility after Curing:	No cracking when applied to tin surface or bent over 1/8 inch (3.2mm) rod	

Resistance to Specific Chemicals:

Inorganic Chemicals

Ammonium Chloride :	Good	
Hydrogen Sulfide:	Good	
Hydrochloric Acid :	Good	
Nitric Acid – Dilute:	Good	
Nitric Acid – Concentrated:	Poor	
Sodium Chloride (Salt Spray)	Good	
(ASTM B 117, 5% sodium chloride @ 95°F (33.9°C) for 500 hrs)		
Sodium Hydroxide: to 5%	Good	over 5% Poor
Sodium Hypochlorite:	Poor	
Sulfuric Acid :	Excellent	fuming @260°F (126.7 °C) fro 240 Hrs

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Organic Chemicals

Acetic Acid:	Good
Acetone:	Poor
Alcohol – Amyl, propyl, butyl, ethyl:	Good
Aliphatic hydrocarbons (crude):	Good to Excellent
Aromatic and chlorinated hydrocarbons:	Poor
Carbon Tetrachloride:	Poor
Citric Acid solution:	Good
Lactic Acid:	Good
Methyl ethyl ketone:	Poor

TEST REPORTS:

Ambric Testing & Engineering Associates, Inc. — Viscosity: A.S.T.M. D562/55; Drying Time: F.T.M.S. N0. 141A, Method 4061.1; Acid Resistance: Hydrochloric Acid, Sulfuric Acid; Alkali Resistance: Sodium Hydroxide coated onto Steel, Copper, Aluminum; Fire Resistance (will not support combustion); Resistance to Flow at High Temperatures; Salt Spray Resistance; Cold Temperature Adhesion (Slam Test); Abrasion Resistance by Sand Blasting; Resistance to Oil; Resistance to Alligating; Water Absorption; Water Content; Ash Content; Solids Content. Water Vapor Transmission; ASTM C 355/64. Mercury Content: Less than 1 PPM.

Surface Prep

All surfaces to be coated must be cleaned of any film, scale, loose material, oils, grease and any other foreign material that will prohibit bond of the Farbertite. Any holes or uneven cracks or joints should be repaired and leveled prior to the application of Farbertite. Surface may be damp prior to application.

Metal — White metal blast (SSPC SP 5-63) new surfaces. Brush blast (SSPC SP 7-63) contaminated or previously coated surfaces.

Concrete — Commercial blast (SSPC SP 6-63) new surfaces. Brush blast (SSPC SP 7-63) contaminated or previously coated surfaces

Mixing

Mix solution for 5 minutes or until solution becomes uniform using a mechanical mixer.

Application

Brush/Roller: The coating should be daubed on or spread uniformly by roller. Do not brush out the surface. Apply a minimum of two coats, leaving no holidays; apply the second coat at right angles to the first coat.

Spray: Typical spray installation is accomplished using a 30:1 or greater airless unit. Use largest available nozzle and apply in a single uniform coat.

On Steel: Apply as directed above, if a small amount of rust appears on the surface after several years, the coating was applied too thin. Corrective measures consist of only adding another coat over the rust spots. It is not necessary to remove the coating and start over. After application, the corrosion inhibitor may bring some rust spots to the surface which is normal. The metal beneath will be clean and protected.

On Concrete: Apply as directed above, the coating will form a waterproof membrane over the concrete and will also protect it from leaching by salt water, acids and other substances.

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Application Equipment:

Conventional spray:

Gun: Binks Model 2001 Gun

67 Fluid nozzle (.086)

67PD Air nozzle

Hose: Min. 3/4" (2.0 cm) ID solvent resistant

Tank: Double regulated bottom outlet pressure tank with follower plate. Oil and water extractor.

Pump: Binks B4F 2½:1 Ratio at 12 GPM

Airless spray:

Gun: Airless 1M Mastic Spray Gun

Tip: .031—.036 (.787—.914) Tip

Pump: Binks B8DX 38:1 ratio pump, mounted on ram with follower 50 mesh Filter-Surge chamber assembly 3/8" (1.0 cm) Nylon or Teflon lined high pressure hose

Coating Thickness:

Metals: Apply at the rate of 200 square feet per gallon (5 m² per liter) for thin coatings, down to 75 square feet per gallon (1.9 m² per liter) for thick coatings. Final film thickness should be 10 to 20 mils (254 to 508µm) dry, in proportion to the corrosiveness of the environment.

Concrete: On surfaces to be immersed in water apply two coats, each to cover no more than 100 square feet per gallon (2.5 m² per liter). On surfaces not subject to constant immersion, lesser thickness may be used but a continuous membrane must be formed.

Asphalt Concrete: Pour Farbertite onto the surface and spread with a squeegee at a rate of about 75 sq. ft. per gallon (1.9 m² per liter).

Drying Time: Allow 4 hours to be dry to the touch; 24 hours to cure under normal conditions; 72 hours to cure in damp weather or in poorly ventilated areas. Provide temporary ventilation measures during application and curing under indoor conditions. The first coat must be cured before the second coat can be applied.

Water must not come into contact with the coating until the cure is complete. Once cure is complete, the product cannot be removed with water. High temperature surfaces, such as chimneys or smoke stacks, should be heated slowly the first time after application of Farbertite. Slow heat rise will drive off all moisture and prevent blistering or cracking. Once the membrane is cured by heat, no damage will occur.

Limitations

- ◆ Minimum material, surface and ambient temperature must be 50°F and not to go below for 24 hrs.
- ◆ Dew or rain on product while uncured may cause surface to blush or brown and may impair its cure.
- ◆ Maximum application temperature is 150°F for dry heat and 110°F (43.3°C) for moist heat
- ◆ Do not allow material to freeze, cannot be used if material freezes.

Clean up

Clean equipment and tool while wet with soapy warm water. Once dry, use a citrus degreaser.

Caution

FOR INDUSTRIAL USE ONLY:

Review Material Safety Data Sheet (MSDS) before using this product. Contains coal tar. Avoid contact with eyes and skin. In case of eye contact, flush eyes with plenty of cold water and contact a physician immediately. Do not take internally. If swallowed, do not induce vomiting. Contact a physician immediately. Use with good ventilation. Avoid breathing of vapor. In confined areas, good forced ventilation must be used. Do not use around food products or where odor may penetrate to cause an odor problem. Once cured, material odor ceases.

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Warranty

This product is warranted and guaranteed to be of good quality. Manufacturer, as its sole and exclusive liability hereunder, will replace material if proved defective. This warranty and guarantee are expressly in lieu of all others, express or implied, including any implied warranty of merchantability or fitness for a particular purpose and may not be extended by representatives or any persons, written sales information, or drawing in any manner whatsoever. While the manufacturer recommends uses for the product based on tests believed reliable, no warranties, express or implied, or guarantee can be given as to particular methods of use or application, nor can performance be warranted, expressly or impliedly, or guaranteed under special conditions. Distributors, salesperson or company representatives are not authorized to extend or vary any warranties or guarantees beyond those outlined herein nor may the manufacturer's or seller's limitation of liability be waived or altered in any manner whatsoever.

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