



PermoTar

EPOXY / COAL TAR COATING

TYPE:

Epoxy Tar. A two-component, self priming, chemically cured, catalyzed coal tar protective coating.

USE:

Provides heavy duty protection for exposures in marine (ship hulls, tanks, piling, etc.) petroleum (refinery tanks, piping, offshore structures, etc.) ; water and sewer treatment.

PermoTar meets or exceeds all requirements of the Corp of Engineers Specification C-200, AASHTO M200, Government Specification MIL-P 23236 and Steel Structures Paint System SSPC Paint 16-68T. Florida DOT Type D& M. Georgia 2-P.

Although PermoTar exhibits self priming characteristics, it functions well over compatible primers such as epoxy based inhibitive products; Pilgrim LO Primer and Pilgrim Zinc Rich Primer.

When applied in one or two coats at a minimum of 16 mils dry, it exhibits excellent resistance when immersed in, or subject to the following environments: Fresh water, sea water, calcium chloride, magnesium sulfate, sodium carbonate, 20% sodium hydroxide, sodium nitrate, Aliphatic hydrocarbons, acid solutions, alcohols.

SYSTEMS:

- Ship or barge bottom**
- 1 coat Pilgrim LO Primer
- 1 coat Permo-Tar (8-12 mils dft)
- 1 or 2 coats Anti-Fouling
- Tanks**
- 1 or 2 coats Permo-Tar
- Concrete**
- 1 or 2 coats Permo-Tar

PROPERTIES:COLOR:	Black
WEIGHT/GALLON:	10.5 + .5 lbs.
WEIGHT SOLIDS:	80.1
WEIGHT of COATING:	00.9 lbs./mil.ft.
VOLUME SOLIDS:	75.8
THEORETICAL COVERAGE:	1120 Mil.sq.ft./gal.
COVERAGE per GAL.	140 sq.ft. at 8 mils.
PACKAGE:	5 gal kit @ Ratio 4 to 1 by volume Part A - 4 Gal. - 512 FL.Oz. Part B - 1 gal. - 128 Fl.Oz.

COMPONENT A:

Nonvolatiles	81.84%
Viscosity	160 poises

COMPONENT B:

Nonvolatiles	99.84%
Epoxide Eq.	188.53

CURING PROPERTIES

POT LIFE:	@ 50°-60° F	4-6 Hrs
	@ 60°-80° F	2-4 Hrs.
	@ 80°-100° F	1-2 Hrs.
DRY TIME:	@77° deg.F	
	To touch	3 hrs.
	Recoat (min)	When firm
	Recoat (max)	
	50°-60° F	16-72 hrs.
	60°-80° F	12-18 hrs.
	80°-100° F	8-12 hrs.
FLASH POINT:	(ASTM D-93, P-M Closed cup)	
	Part A	79°F
	Part B	none
	Mixed	91°F

TEMPERATURE RESISTANCE (dry) -30-160°F

QUALIFICATIONS:

- FLORIDA DOT TYPE M
- GEORGIA DOT TYPE 2-P
- C-200; CE 1409; SSPC 16-68T

SAFETY: This product and any recommended thinners contains solvents and/or other chemical ingredients. Refer to "material Safety Data Sheets" for complete information on safety and handling. Take these precautions during application and before coating dries.

A Component is **FLAMMABLE!** Keep away from heat, sparks and flame. Avoid breathing of vapor or spray mist. Avoid contact with eyes and skin, Use a barrier cream on exposed skin. Wash thoroughly after handling. In case of spillage, absorb and dispose of in accordance with local applicable regulations. Do not take internally.

KEEP OUT OF REACH OF CHILDREN

Use with adequate ventilation during application and drying. In tanks and other confined areas, use only with adequate forced air ventilation to prevent dangerous concentrations of vapors which could cause death from explosion or from breathing. Use fresh air masks, clean protective clothing and explosion-proof equipment. Follow OSHA regulations regarding ventilation and respiratory equipment.

IMPORTANT! Any mixture of Components A and B will have hazards of BOTH Components.

PILGRIM PERMOCOAT

Main office and factory: 402 S. 22nd Street, Tampa, FL 33605 (813) 248-3328 FAX# (813) 248-1076
Distribution : USA, Canada, Caribbean

APPLICATION INSTRUCTIONS

LIMITATIONS: Apply only in good weather, when air and surface temperatures are above 50F and surface temperatures is at least 5 degrees above wet bulb temperature reading. For optimum application properties, maintain product in heated storage between 70 and 90F, or bring this material to this temperature range prior to mixing and application. Dew or rain on Pilgrim Permotar while uncured may impair its cure and adhesion of subsequent coats.

SURFACE PREPARATION: Prepare and paint only clean, dry surfaces.

Steel - Prepare surface in accordance with Steel Structures Painting Council Specification No. 10 "Near White Blast Cleaning" (SSPC-SP 10-63T). Use proper type and size abrasive to attain an average profile depth of 2.0 mils. Do not reuse sand or flint abrasives. Grit or shot abrasives must be cleaned of contamination before reuse. Blow dust and grit from surface with clean, dry air. Coat within 8 hours and before rust or contamination occurs. Apply Pilgrim Permo-Tar as specified directly to properly cleaned steel or over recommended Pilgrim primers. For immersion service, round all welds, sharp edges to a smooth curve and remove all weld spatter before blast cleaning.

Concrete - Surfaces shall be clean, dry, properly cured and free from curing compounds, oil, grease, dirt, chemical contaminant's, waxes or previously applied coatings which are not compatible. Brush blast to provide an etched surface and to remove contaminant's and laitants. Remove dust before coating. Apply Pilgrim Permo-tar as specified.

Aluminum and Galvanized - Remove all oil, grease and other contaminant's, then lightly brush blast or etch with specified pretreatment. Prime with recommended primer, then apply Pilgrim Permo-tar.

MIXING: (Ratio 4:1, by Volume) - Agitate Part A with a Jiffy Mixer. A few minutes mixing will reduce the viscosity of the material. THEN add the B Component and thoroughly blend into Part A with Jiffy Mixer for two to three minutes. Allow to stand a minimum of five minutes before application. Usable life of mixed material is function of material temperature. Use within time/temperature limits given in Pot Life section.

THINNING: For airless spray, one half gallon thinner per 5 gallons Permo-tar. Brush or roller application- not to exceed 1 quart per gallon Permo-tar. Thin with Pilgrim 111 or #5.

APPLICATION: Spray application is preferred to obtain optimum film build and uniformity. Can be brushed for touchup in small areas or roller applied, but may require multiple coats to attain specified film thickness. Apply Pilgrim Permo-tar at 12 mils wet film thickness to obtain 8 mils dry film thickness. Can be applied at 20-30 mils wet to obtain 14-20 mils dry when applied by airless spray at ambient temperatures or higher.

APPLICATION EQUIPMENT: As recommended or equal. Brush - inexpensive 4" wide commercial brushes with short hair bristle. Roller - Inexpensive 7" to 14" length short-nap mohair cover. Airless Spray - Pump - Graco Bulldog (30:1) or equal. Line pressure - 70-90 psi. Tip- 23-31 mil, reversible. Tip filter- none. Manifold filter- none or 30 mesh. Hose- 3/8" or 1/2"i.d., high pressure.

Time Between Coats - Where two coats of Pilgrim Permo-tar are required to achieve the recommended film build, the interval between coats should be as short as possible. To insure maximum inter-coat adhesion it is recommended that: (1) The next coat be applied as soon as possible - after the previous coat is firm. (2) If the previous coat has cured beyond the maximum recoat time given in Drying Time section, uniformly abrade the surface to a dull golden brown appearance by brush blasting under low pressure to provide an adequate mechanical bond before recoating.

Final Curing Times (Following application of last coat) - For immersion service, 72 hours at 77F or higher; for abrasion conditions (pile driving, etc.) minimum 7 days at 77F or higher. Cure times are proportionately shorter at elevated temperatures and longer at lower temperatures.

CLEANUP: Clean all equipment immediately after use with Pilgrim #5 or xylene. It is good working practice to periodically flush out spray equipment during the course of the working day.

CONTINUITY TEST (when required) - A non-destructive (100 volts or less) holiday detector should be used to check continuity of dried film. A suitable type is Tinker-Razor Model M-1. Holiday areas should be sanded or brush blaster, then spot coated over abraded areas only.

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FIRST AID: In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. If affected by breathing of vapor, move to fresh air. If swallowed, call a physician immediately. Do not induce vomiting.

IN CASE OF FIRE: Use dry chemical, foam, water fog or CO₂.

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