



ESGARD

PERMAGARD 250 COAL TAR EPOXY

DESCRIPTION	PermaGard 250 is a high solids/low V.O.C., self-priming coal tar epoxy suitable for all environments. PermaGard 250 is a two component coal tar epoxy with excellent adhesion to properly prepared surfaces, steel.				
FIELD OF APPLICATION	PermaGard 250 is ideal as a primer/finish coat in aggressive industrial and marine environments. Product applications include: <table><tr><td>1. Marine structural steel</td><td>3. Sewage treatment plants</td></tr><tr><td>2. Refineries and chemical plants</td><td>4. Concrete surfaces</td></tr></table>	1. Marine structural steel	3. Sewage treatment plants	2. Refineries and chemical plants	4. Concrete surfaces
1. Marine structural steel	3. Sewage treatment plants				
2. Refineries and chemical plants	4. Concrete surfaces				
SERVICE CONDITIONS	PermaGard 250 will withstand 180°F (82°C) continuous dry heat and 150°F (66°C) continuous immersion. It has excellent resistance to acids, alkalies, fresh water and salt water.				

TECHNICAL DATA

TYPE Coal tar epoxy polyamide – meets U.S. Army Corps of Engineers C-200 specifications and meets SSPC No. 16 specification.

VOLUME SOLIDS 75%

V.O.C. As Supplied: 1.95 lb/gal (234 g/l)
Thinned 10%: 2.44 lb/gal (292 g/l)

DENSITY 10.6 lbs/gal (2.08 kg/l)

COVERAGE (Theoretical) 1203 sq ft/gal at 1 mil dry (1.3 mils wet)
29.5 sq m/l at 25 microns dry (33 microns wet)

150 sq ft/gal at 8 mils dry (10.6 mils wet)
3.68sq m/l at 200 microns dry (267 microns wet)

NOTE: When figuring practical coverage, allow for application losses, surface irregularities, any solvent addition, etc.

RECOMMENDED DRY FILM THICKNESS 8.0 - 15.0 mils (200 - 375 microns)

DRY TIME @ 8 MILS @ 8 MILS DFT, 77°F(25°C) 65% R.H.

To touch:	1-2 Hours
To handle:	12 Hours
Recoat:	6-8 Hours

Manufacturers of Quality Paints and Protective Coatings
Esgard, Inc. 515 Debonnaire Road Scott, Louisiana 70583 U.S.A.
(337)234-6327 Fax (337) 234-0113 1-800-888-2511

www.esgardcoatings.com



ESGARD

SURFACE PREPARATION

Thoroughly clean any oil or grease contaminated areas with Esgard Surface Conditioner or a detergent wash followed by a fresh water rinse and allow drying in accordance with SSPC-SP1-82. All surfaces should be cleaned free of all dirt, rust, and other surface contaminants. All surfaces should be prepared to the following norms: SSPC-SP10-82 near white blast or better with 1.5 to 2.0 mil (37 – 50 micron) anchor profile. Or, or UHP to SSPC-SP12 WJ3/L or better.

APPLICATION

Mix – Power mix Part A separately, then mix 4:1 by volume A:B. Allow to stand for 15 minutes to thoroughly mix and ingest.

Thin - Thin only as needed up to 10% (typically 5%) by volume to obtain proper consistency. For all spraying, brushing, and rolling use the following:

Above 80°F (27°C)	Esgard Thinner 106
Below 80°F (27°C)	Esgard Thinner 103

NOTE: The use of non-specified thinners may affect application characteristics and product performance.

Spray - Use suitable conventional or airless spray equipment. Flush equipment with Thinner 103 or 106 before use. The following has been found adequate:

Conventional - Pressure pot should have an oil/water trap, double regulators, and minimum 3/8" I.D. fluid and air hose. Gun should be a DeVilbiss with a D tip and #64 air cap, or Binks with a #68 set up.

Airless - Use Graco Bulldog 30:1 or equal with Teflon packing with minimum 3/8" I.D. fluid hose. Gun should have a fluid tip size .021 - .025. Fluid tip pressure should be 1300 - 2600 psi.

Brush – For touch up only. Apply PermaGard 250 with a clean quality paint brush.

Roll – For touch up only. Apply PermaGard 250 with a quality medium nap roller with woven pile and phenolic core. A solvent resistant foam roller provides an excellent finish.

Note: Two coats may be necessary to obtain proper film thickness because brushing and rolling tend to push material thinner than required.

POT LIFE

<u>TEMPERATURE</u>	<u>HOURS</u>
77°F (25°C)	6
90°F (32°C)	3
100°F (38°C)	2

CLEAN UP

Esgard Thinner 103 or 106. For personal cleanup, use soap and water.

Manufacturers of Quality Paints and Protective Coatings
Esgard, Inc. 515 Debonnaire Road Scott, Louisiana 70583 U.S.A.
(337)234-6327 Fax (337) 234-0113 1-800-888-2511

www.esgardcoatings.com



APPLICATION / SERVICE LIMITATIONS (TYPICAL)

Temperature and Humidity:			
		<u>MIN</u>	<u>MAX</u>
Application (Ambient)		45°F (7°C)	110°F (43°C)
Application (Material)		45°F (7°C)	110°F (43°C)
Surface		45°F (7°C)	145°F (63°C)
Humidity		0%	90%
Service			
	<u>Non-Immersion Dry</u>		
	Continuous	-	180°F (82°C)
	Intermittent	-	250°F (121°C)
	<u>Immersion</u>		
	Continuous	-	150°F (66°C)
Storage		45°F (7°C)	100°F (38°C)

This product simply requires application when the surface temperature is above the dew point. Condensation resulting from substrate temperatures below the dew point may cause flash rusting on prepared surfaces and interfere with adhesion. Special application techniques may be necessary above and/or below typical application conditions.

ORDERING INFORMATION

CONTACT # 1-800-888-2511

SHIPPING WEIGHT		<u>1 GAL KIT</u>	<u>5 GAL KIT</u>
	PermaGard 250	11.6 lb (5.3 kg)	56.8 lb (25.82 kg)
		<u>1 GAL</u>	<u>5 GAL</u>
	Thinner 103	8.5 lb (3.9 kg)	42.0 lb (19.10 kg)
	Thinner 106	8.5 lb (3.9 kg)	42.0 lb (19.10 kg)

FLASH POINT	PermaGard 250 – Part A	82°F (28°C)
	PermaGard 250 – Part B	480°F (249°C)
	Thinner 103	45°F (7°C)
	Thinner 106	105°F (41°C)

COLORS Black.

SHELF LIFE Thirty – six (36) months from date of shipment.

CAUTION FOR INDUSTRIAL USE ONLY! FLAMMABLE! Contains petroleum distillates. **DO NOT USE NEAR HEAT, SPARKS, OR FLAMES.** Close container after use.

SAFETY/FIRST AID Refer to Material Safety Data Sheet supplied with each order.

Manufacturers of Quality Paints and Protective Coatings
 Esgard, Inc. 515 Debonnaire Road Scott, Louisiana 70583 U.S.A.
 (337)234-6327 Fax (337) 234-0113 1-800-888-2511

www.esgardcoatings.com