



ESGARD

PERMAGARD 208 HI - SOLIDS EPOXY

DESCRIPTION	PermaGard 208 is a premium quality high solids/low V.O.C. high build epoxy coating that is suitable as a primer, intermediate, and finish coat, if desired. It has excellent penetration and adhesion to rusted surfaces, aged galvanizing and most existing paint systems. It is a generic version of Esgard's successful PermaGard 200 Epoxy Kote and has been optimized for dry films in the range of 5.0 – 7.0 mils per coat. Product advantages include:			
	<ol style="list-style-type: none"> 1. Rust inhibitive 2. Hard, tough film 3. User friendly 4. Low V.O.C. 5. 1:1 mixing ratio 	<ol style="list-style-type: none"> 6. Long term flexibility 7. Minimal surface preparation 8. Lead and Chromate free 9. Excellent recoating properties 		
FIELD OF APPLICATION	PermaGard 208 is ideal for use in light to heavy duty industrial or marine environments as a primer, intermediate or finish coat. Product applications include:			
	<ol style="list-style-type: none"> 1. Storage tanks / pipelines 2. Refineries / chemical plants 3. Offshore structures 4. Drilling rigs 	<ol style="list-style-type: none"> 5. Industrial machinery 6. Marine vessels 7. Pulp and paper mills 8. Heavy equipment 		
SERVICE CONDITIONS	PermaGard 208 exhibits broad resistance to aggressive chemicals and severe marine environments. It is not recommended for exposure to strong acids, vigorous oxidizing solutions or immersion service in acids, alkalies or solvents. Typical chemical resistance is as indicated in the chart below. PermaGard 208 will withstand continuous dry heat of 200°F (93°C) and intermittent dry heat to 250°F (121°C). The color may change as these limits are approached, but the film will remain intact. For immersion in fresh or salt water, the continuous temperature should not exceed 150°F (66°C). Do not use for potable water. For further information, see application/service limitations.			
	<u>Exposure</u>	<u>Immersion</u>	<u>Splash & Spill</u>	<u>Fumes</u>
	Acids	NR	Very Good	Excellent
	Alkalies	NR	Very Good	Excellent
	Solvents	NR	Excellent	Excellent
	Salt Water	Excellent	Excellent	Excellent
	Water	Excellent	Excellent	Excellent

TECHNICAL DATA

TYPE Rust-inhibitive modified epoxy

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.esgard.com



VOLUME SOLIDS	78%
V.O.C.	As Supplied: 2.00 lb/gal (240 g/l) Thinned 10%: 2.48 lb/gal (298 g/l)
DENSITY	12.00 lbs/gal (1.30 kg/l)
COVERAGE (Theoretical)	1251 sq ft/gal at 1 mil dry (1.3 mils wet) 33.6 sq m/l at 25 microns dry (32 microns wet) 250 sq ft/gal at 5 mils dry (6.5 mils wet) 6.7 sq m/l at 125 microns dry (160 microns wet)

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

RECOMMENDED DRY FILM THICKNESS PER COAT	Minimum: 4.0 mils (100 microns) Typical: 5.0 – 7.0 mils (125 – 175 microns) Maximum: 8.0 mils (200 microns)
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DRY TIME (HOURS) @ 5 MILS DFT 65% R.H.	<u>50°F (21°C)</u>	<u>77°F (27°C)</u>	<u>90°F (38°C)</u>
Set-to-touch	22 Hours	4 Hours	3 Hours
Dry hard (through)	30 Hours	18 Hours	14 Hours
Recoat	24 Hours	6 Hours	4 Hours
Overcoat	30 Hours	8 Hours	6 Hours
Immersion Service	21 Days	7 Days	7 Days

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.

NON-IMMERSION SERVICE

New Steel – Abrasive blast to SSPC-SP6-82 commercial blast surface or better with an anchor profile of 2.0 – 3.0 mils (50 – 75 microns).

Existing Paint System and/or Failing Steel – Remove all loose paint, dirt, rust, hydrocarbons and other surface contaminants via the most economical method:

Manual: SSPC-SP2-82 wire brush surface or SSPC-SP3-82 power tool surface or better.

Abrasive blast: SSPC-SP6-82 commercial blast surface or better with an anchor profile of 2.0 – 3.0 mils (50 – 75 microns).

UHP: SSPC-SP12 WJ-3/L or better.

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IMMERSION SERVICE

New Steel – Abrasive blast to SSPC-SP10-82 (near white metal) surface or better with an anchor profile of 2.0 – 3.0 mils (50 – 75 microns) or UHP to SSPC-SP12 WJ3/L or better.

Existing Paint System and/or Failing Steel – Abrasive blast to SSPC-SP10-82 (near white metal) surface or better with an anchor profile of 2.0 – 3.0 mils (50 75 microns) or UHP to SSPC-SP12 WJ3/L or better.

Note: PermaGard 208 may be applied over most generic coatings when properly prepared. However, a test patch is always recommended to test compatibility.

APPLICATION

Mix – Power mix components separately, then mix 1:1 by volume A:B. Mix completely all of Part A with Part B. Do Not Use Partial Kits.

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 .019 - .025. Fluid tip pressure should be 1300 - 2600 psi.

Brush – Apply PermaGard 208 with a clean pure china bristle paint brush.

Roll – Apply PermaGard 208 with a quality short to medium nap roller with phenolic core. A solvent resistant foam roller provides an excellent finish.

POT LIFE

<u>TEMPERATURE</u>	<u>HOURS</u>
77°F (25°C)	4
90°F (32°C)	2
100°F (38°C)	1

Pot life ends when viscosity changes and spraying and film build characteristics are impaired.

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CLEAN UP

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

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)		50°F (10°C)	110°F (43°C)
Surface		45°F (7°C)	145°F (63°C)
Humidity		0%	97%
Service			
	<u>Non-Immersion Dry</u>		
	Continuous	-	200°F (93°C)
	Intermittent	-	250°F (121°C)
	<u>Immersion</u>		
	Continuous		150°F (66°C)
Storage		45°F (7°C)	110°F (43°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>2 GAL KIT</u>	<u>10 GAL KIT</u>
PermaGard 208		28.0 lb (12.0 kg)	136.0 lb (61.8 kg)
		<u>1 GAL</u>	<u>5 GAL</u>
Thinner 103		8.5 lb (3.9 kg)	42.0 lb (19.0 kg)
Thinner 106		8.5 lb (3.9 kg)	42.0 lb (19.0 kg)

FLASH POINT	PermaGard 208 – Part A	95°F (35°C)
	PermaGard 208 – Part B	95°F (35°C)
	Thinner 103	45°F (7°C)
	Thinner 106	105°F (41°C)

COLORS Standard colors available. Custom colors on request.

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.

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