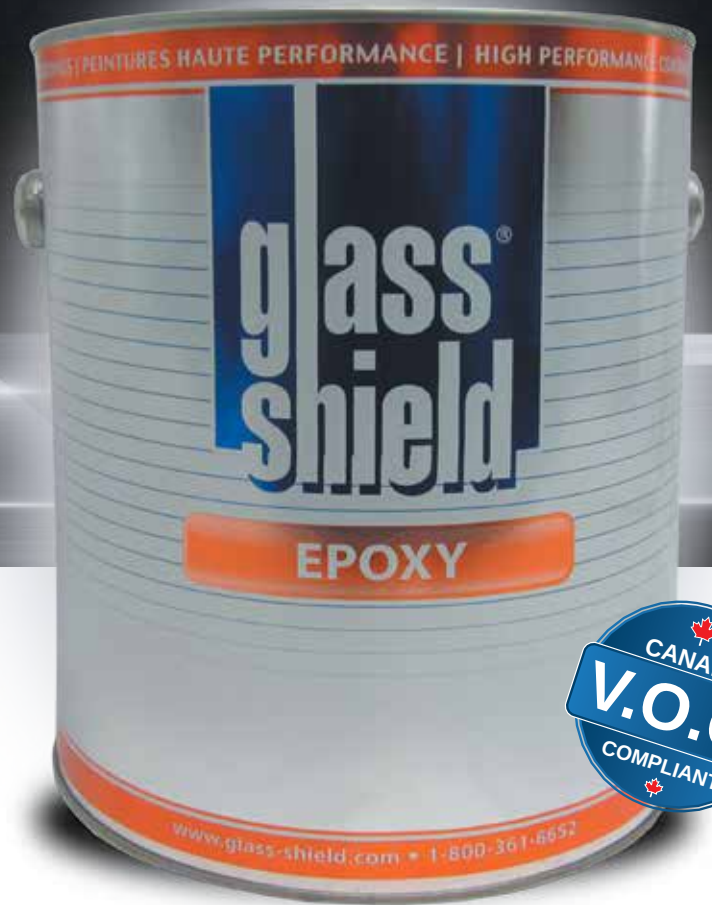


# EP-GUARD™ 1300 series

EPOXY  
SHOCK AND ABRASION  
RESISTANT DTM COATING



HIGH  
PERFORMANCE  
COATINGS

\*Conditions may apply; refer to the "Definitions and regulations" or visit our website at : [www.Glass-Shield.com/VOC](http://www.Glass-Shield.com/VOC)

[www.glass-shield.com](http://www.glass-shield.com)  
1-800-361-6652

## PRODUCT FEATURES

- Ideal for use on substrates exposed to potentially damp or wet conditions
- Excellent adhesion on a wide variety of substrates including fiberglass, plastic, steel, concrete, properly prepared stainless steel, properly prepared aluminum
- Up to 30 days recoat time without the need to be sanded (some conditions apply; please consult the technical support to inquire about the best practices)

## SUGGESTED USE

- Wide variety of substrates which require an excellent adhesion in severe conditions.
- Ideal for submerged or damp environments
- Steel
- Properly conditioned Stainless Steel grade #304
- Properly prepared aluminium
- Fiberglass
- Plastic
- Concrete
- Architectural applications as per articles 24, 31, 40, 49 & 50 (reference to SOR/2009-264 official document) of the "Definitions and regulations" section of this document.

## TECHNICAL DATA

<b>Coating Type</b>	Two component polyamide epoxy
<b>Colour</b>	grey and black
<b>Gloss (ASTM D523)</b>	60° +/- 5°
<b>Packaging</b>	Part A: 3L / 15.12L Part B: 0.75L / 3.78L
<b>Shelf Life</b>	Part A: 5 years Part B: 2 years
<b>Flashpoint (ASTM D93)</b>	26° C (79° F)
<b>Mixing Ratio</b>	4 : 1 per volume
<b>Induction Time</b>	GS 161-49C: 30 minutes GS 161-80C: None
<b>Hardener and Pot Life</b>	GS 161-49C: 6 hours GS 161-80C: 3 hours
<b>Volatile Organic Compound (VOC)</b>	2.72 bs/gal (334 g/l)
<b>Solids (ASTM D1644)</b>	By weight: 70% +/- 5% By volume: 50% +/- 5%
<b>Recommended Film Thickness</b>	75-100 Microns dry (3.0 - 4.0 mils dry)
<b>Theoretical Coverage</b>	28 m <sup>2</sup> / L at 25 microns dry 851 Pi <sup>2</sup> / Gal US at 1 mil +/- 5%
<b>Application Method</b>	Brush, roller, conventional airspray, airless and HVLP
<b>Temperature Resitance</b>	100°C (212°F) in service
<b>Thinner</b>	GS UC-500S - regular GS UC-555S - low VOC fast GS UC-557S - low VOC slow GS 162-11S - slow
<b>Accelerator</b>	Not required when using 161-80C

## CHEMICAL RESISTANCE (spot tests)

Specific Test	ASTM	Results
Solvent	D1308	Very good
Acids	D1308	Very good
Alkali	D1308	Very good
Oil / Grease	D1308	Very good
Detergent	D1308	Excellent
Water	D1308	Excellent

## APPLICATION

EP-GUARD 1300 Series can be applied by brush, roller, airspray, airless and electrostatic. For all air spray and airless application, please refer to the equipment manufacturer for guidance in achieving proper viscosity.

For HVLP application, please refer to your spray equipment manufacturer for guidance on selecting the right size tip.

### PRESSURE



40 to 65lbs  
HVLP 10 lbs at the gun

### DRY FILM THICKNESS



3.0 to 4.0 mils  
1 to 2 coats

### INTERCOAT



10 minutes

## MULTIPLE APPLICATIONS TABLE



Looking for the perfect solution to your painting project? Call us at 1-800-361-6652

## NOT RECOMMENDED FOR

- Aluminum or stainless which are not properly conditioned.
- In Canada as a: Automotive Primer Surfacers: As an alternative for this purpose, we strongly recommend using the 1420 epoxy or the MC-4390 or the MC-46704 which are VOC compliant for this type of application. Refer to the Rules & regulations section of this document.

In doubt? Contact technical services at 1-800-361-6652 for proper guidance in preparing substrate

**DISCLAIMER:** All information is given in good faith. Since conditions of use are beyond the manufacturer's controls, all information contained herein is without warranty, implied or otherwise. All technical data and specifications are subject to change. Please consult with your Glass Shield representative for more detailed coating recommendations.

## AIRLESS & AIR SPRAY

Manufacturer	Graco	Manufacturer	Devilbiss	SATA
Pump	30 : 1	Spray Gun	HET	K3 RP
Fluid Hose	3/8" x 100' maximum	Fluid Tip	1.1 ff	1.1
Tip Size	311, 413, 515, 517 or equivalent	Air Cap	#410 / 414	
PSI	2400 PSI minimum	Fluid Line	3/8"	3/8"
		Pressure Pot	15 - 25 psi	40 psi
		Atomizing Air	40 - 65 psi	36 psi

## CURING SCHEDULE

Curing times are based on a 3.0-4.0 mils (75-100 microns). Let the film flash off two hours after application. Higher film thickness, insufficient ventilation or cooler temperature will require a longer curing time and could result in solvent entrapment and premature failure of the film. Excessive humidity levels (85%+) or condensation on the substrate might interfere with the curing process leading to a discoloration and poor film quality. In which case the paint job will have to be redone. The maximum recoat time is 30 days without any additional surface preparation. If the maximum recoat time has been exceeded, the surface must be sanded or prepared with a brush-off blast SSPC-SP-7 prior to the application of additional coats. When EP-GUARD 1300 Series is applied at temperatures below 40°F (4°C), a slight softening of the film may occur for a few hours. This is a normal condition and will not influence performance. Contact technical services for recommendations and test results.

Catalyst	161-49C	161-80C
Between Coats	10 min.	10 min.
Dry to Touch	3 hours	1 hour
To Recoat	3 hours	1 hour
Hard	12 hours	8 hours
Fully Cured	7 days	7 days

## DEFINITIONS AND REGULATIONS

**IMPORTANT NOTICE :** Canadian VOC regulations do not apply in the same way for automotive applications as for architectural applications.



The permissible VOC contents in grams per liter (g/l) vary considerably according to the types of applications as well as the various forms of activities. For example, the application of coatings is governed by the two regulations listed below, everywhere in Canada, except in manufacturing, marine, railway or military. To easily identify the recommended and VOC compliant Glass Shield products, please visit [www.Glass-Shield.com/COV](http://www.Glass-Shield.com/COV).

In this section you will find two tables showing the maximum VOC content permitted under the Automotive Application Regulations (SOR/2009-197) and the Architectural Applications Regulations (SOR/2009-264). We have designed these interactive and informative tools to help you easily identify the Glass Shield products that are specifically recommended for each book and are fully compliant with applicable standards.

**For any additional information about a particular application, contact the technical department at 1-800-361-6652 or [contact@glass-shield.com](mailto:contact@glass-shield.com) from Monday to Friday between 8:00 and 4:30PM.**

## PERFORMANCE INFORMATION

Specific Test	ASTM	Results
Mar Resistance	D5178	2500 - 2000 grams
Flexibility (Mandrel)	D522	Pass 1/4 inch
Impact Resistance: direct	D2297 / 2294 / G-14	80 lbs pi
Elcometer (pull test)	D4541	>1000 lbs with polyurethane 2800 series
Water Resistance (immersion)	D870-97	Pass






## SURFACE PREPARATION

Prior to the application of EP-Guard 1300 Series, make sure that the substrate is free of dirt, dust, salt deposit, oil, grease, rust, paint and other foreign contaminants. The minimum suggested surface preparation is SSPC-SP-2 or SSPC-SP-3 prescribed by the Steel Structure Painting Council. The recommended standard is SSPC-SP-6 (commercial blast).

For aluminum substrate, surface must be well prepared and primed with a vinyl wash primer; Glass-Shield VINYL-SHIELD 7342 in order to promote proper adhesion.

## MIXING AND THINNING

Mix part A thoroughly, add catalyst Part B (GS 161-49C or GS 161-80C) and mix slowly until homogeneous. If using regular catalyst GS 161-49C, allow a 30 minute induction time before applying the product. If using fast catalyst GS 161-80C, no induction time is needed. Thinning is not usually required, although, if needed, the product may be diluted with Glass-Shield GS 162-11S to a maximum of 35%. Also, depending on local VOC and air quality regulations, thinner may be added. Any solvent addition must be made after the induction time. Pot life of the mixed material is 6 hours at 77°F (25°C), higher temperatures will reduce the pot life of the product and lower temperatures will have the reverse effect.

CATALYST	INDUCTION	THINNER	VISCOSITY	POT LIFE
				
4 : 1	30 minutes (none with 161-80C)	10 to 35%	22 to 38 dry	3 to 6 hrs

## PACKAGING, HANDLING & STORAGE

<b>Shipping Weight (approximate)</b>	1 gallon:	4 gallons:
	13 lbs / 6 kg +/- 5%	52 lbs / 24 kg +/- 5%
<b>Storage Indoors</b>	10° - 35° C / 50° - 95° F	

## SALT SPRAY

Specific Test*	ASTM	Results
System EP 1300 + polyurethane 2800**	B117	2000 hours

\*All results based on Glass-Guard white polyurethane (2800002)

\*\*All results based on 4 mils of EP-GUARD 1300 and 3 mils of Glass-Guard white polyurethane 2800 series.



www.glass-shield.com  
1-800-361-6652

EP-GUARD™  
**1300** series