

GLASS-GUARD™ 2800 series

POLYURETHANE HIGH PERFORMANCE



HIGH
PERFORMANCE
COATINGS

Conditions Apply: refer to the Rules & regulations section of this document or visit the website at WWW.Glass-Shield.com/VOC.

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

PRODUCT FEATURES

- V.O.C. (2,1 to 3.4 lbs / gal)
- Outstanding gloss, color retention and resistance to U.V.
- Remarkable resistance to chemical compounds, impact and abrasion
- In field color matching service available
- Increased corrosion control over Glass Shield moisture cured urethanes and epoxy primers
- Resistance to weathering

SUGGESTED USE

- Trucks and fleets
- Trains and railcars
- Bridges
- Nautical
- Storage tanks
- Pipelines
- Military equipment
- Water treatment plants and water tower
- Petroleum, chemical and refineries
- Pulp & Paper mills
- Any substrate (wood, aluminum, fiberglass, galvanized metal, steel, concrete) exposed to moderate or severe corrosive or abrasive environments.
- Automotive applications as per articles 5 and 10 (reference to SOR/2009-197 official document) of the "Definitions and regulations" section of this document.
- Architectural applications as per articles 21 and 50 (reference to SOR/2009-264 official document) of the "Definitions and regulations" section of this document.

SALT SPRAY

Specific Test*	ASTM	Results
System EP 1500 + polyurethane 2800**	B117	2000 hours
System MC-4390 + polyurethane 2800***	B117	5000 hours

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

**All results based on 4 mils of EP-Guard 1500 and 3 mils of Glass-Guard polyurethane 2800 series.

***All results based on 4 mils of Mc-4390 and 3 mils of Glass-Guard polyurethane 2800 series.

TECHNICAL DATA

Coating Type	Aliphatic polyurethane resins
Colour	Wide range of colors (Clear also available)
Gloss (ASTM D523)	90°
Packaging	Part A: 3.78L / 18.9L Part B: .946L / 3.78L
Shelf Life	Part A: 5 years Part B: 2 years
Flashpoint (ASTM D93)	26° C (79° F)
Mixing Ratio	2 : 1 per volume
Induction Time	None
Hardener and Pot Life	GS 275-50C - Regular: 6 hours GS 275-59C - Slow: 6 hours GS 275-80C - Fast: 3 hours
Volatile Organic Compound (VOC)	2.8 to 3.4 lbs / gal (336 to 420 g / l)
Solids (ASTM D1644)	By weight: 59% +/- 5% By volume: 51% +/- 5%
Recommended Film Thickness	50-75 Microns dry (2.0 - 3.0 mils dry)
Theoretical Coverage	16-20 m ² / L at 25 microns dry 685-800 Pi ² / Gal US at 1 mil +/- 5%
Application Method	Brush, roller, conventional airspray, airless, HVLP and electrostatic
Temperature Resistance	100°C (212°F) in service
Thinner	GS UC-500S - regular GS UC-555S - low VOC fast GS UC-557S - low VOC slow GS 262-17S - slow Électrostatique
Accelerator	SC888 292-1AC

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

PERFORMANCE INFORMATION

Specific Test	ASTM	Results
Hardness, Pencil Gouge end point (air dry: 25° C, 40% RH)	D3363	4H
Hardness König Pendulum (air dry: 40° C)	D4366	150 seconds
Flexibility (Mandrel)	D522	Pass 1/8 inch
Impact Resistance : direct	D2297 / 2294 / G-14	76 lbs pi
Elcometer (pull test)	D4541	>1000 lbs with Epoxy Primer >800 lbs with MC-4390
Smoke Density	E662-01	Pass
Specular Gloss	D4523	Excellent > 90%
Direct Weathering Inland Florida USA 5 deg. South exposure time : 2 years	D4141 Procedure A	Gloss : E= 2 Deg. Original: 96% - Final (washed): 94% Color Shift: Ecmc= 2.1
Flame test	FAR 25.853 (BSS 723OFS)	Pass

SURFACE PREPARATION

Prior to the application of GLASS-GUARD 2800, make sure that the substrate is clean, dry, free of dirt, dust, salt deposit, oil, grease and other contaminants of any nature to ensure optimum adhesion. Apply over appropriate undercoat. In doubt, contact technical services at 1-800-361-6652 for proper guidance in preparing substrate.

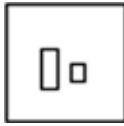





MIXING AND THINNING

Mix part A thoroughly in order to obtain an homogeneous component. Add catalyst Part B (GS 275-50C, GS275-59C, GS 275-80C) and mix slowly until homogeneous. No induction time is required. Thinning is not usually required, although, if needed, the product may be diluted with Glass-Shield GS UC-500S to a maximum of 35%. Thinner may also be added depending on local VOC and air quality regulations. 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.

Note: Dry time will vary depending on the catalyst and the addition of paint accelerator.

Warning: The addition of more than 35% of thinner can adversely affect the performances of the coating.

CATALYST	THINNER	VISCOSITY	POT LIFE
			
2 : 1	10 to 35 %	22 to 60 dry	3 to 6 hrs

PACKAGING, HANDLING & STORAGE

Shipping Weight (approximate)	1 gallon 3.78 L 3.9 lbs / 1.68kg	5 gallons 18.9L 19.5lbs / 8.68kg
Storage Indoors	10° - 35° C / 50° - 95° F	

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GLASS-GUARD™
2800 series

APPLICATION

Glass-Guard 2800 can be applied by brush, roller, airspray, airless and electrostatic. For all airspray and airless applications, please refer to the equipment manufacturer for guidance on achieving optimum viscosity. Avoid damp surfaces and high humidity conditions since condensation or fog could settle on the coating before it has cured. Minimum temperature for application is 10°C (50°F). Temperatures above 30°C or high humidity conditions may shorten the cure time of the pot life. If faster cure times are required, use Glass-Shield fast catalyst GS 275-80C. If slower times are needed, use slow catalyst GS 275-59C.

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

PRESSURE



40 to 65lbs/ 10lbs at the gun
Conventional HET or JTI

DRY FILM THICKNESS



2.0 to 3.0 mils
1 to 3 coats

INTERCOAT



minimum 10 minutes

MULTIPLE APPLICATIONS TABLE



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

NOT RECOMMENDED FOR

- Application over bare aluminum
- Application for continuous water immersion
- CAUTION! Do not apply product when dew can form on the surface in the first 6 hours of cure. Be sure all surfaces are completely free of moisture before applying product.
- DO NOT APPLY PRODUCT IF RELATIVE HUMIDITY IS 90°F OR HIGHER.

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.

Revised on April 2019

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	309, 411, 513, 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

Dry times are based on a 2.0-3.0 mils (50-75 microns). Let the film flash off two hours after application. Excessive film thickness, insufficient ventilation or cooler temperature will require longer dry time and could result in solvent entrapment and premature failure of the film. Excessive humidity levels or condensation on the substrate during the dry time might interfere with the process leading to discoloration and poor film quality. In that case the paint job will have to be redone. Maximum recoat time is 72 hours without special surface preparation. Contact technical services for recommendations and test results. 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. Glass-Guard 2800 applied below 4°C (40°F) may soften for several hours. This is a normal condition and will not influence performance.

Catalyst	275-50C	275-59C	275-80C
Between Coats	Min 10 min. 72 hours max	Min 10 min. 72 hours max	Min 10 min. 72 hours max
Dry to Touch	2-3 hours	3-4 hours	1hours
To Recoat	12-16 hours	24 hours	+10 hours
Hard	8 hours	10 hours	7 hours
Full Cured	7-10 days	10 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/VOC. 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 from Monday to Friday between 8:00 and 4:30PM.