Gerber Guard™ Protective Overlaminate manufactured by 3M

DESCRIPTION

Gerber Guard™ is a 3-mil, glossy overlaminate custom formulated for Gerber by 3M. It has been designed to enhance the petrochemical and abrasion resistance of graphics (and their print substrates) produced with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with GerberColor™ Foils. It can also be used with unprinted film.

INTENDED APPLICATIONS

Graphics that will be applied in areas likely to have petrochemical contact will benefit from the application of Gerber Guard.

Graphics that have been laminated with Gerber Guard can be applied to flat surfaces or flat surfaces with rivets. Gerber Guard is not recommended for use on corrugated or highly irregular surfaces.

For information on further protecting graphics from ultraviolet light, refer to the Gerber UVGuard Product Bulletin (OL-GerbUV).

APPLICATION TECHNIQUES

The following procedure is recommended when using Gerber Guard for a *chemical resistant application*:

1. Create job with print and cut.

2. Create decal cut around entire job that is 1/8 inch wider than graphic.

3. Output all.

4. Print and cut job, weed (remove decal cut outline) leaving bulls eye visible.

GERBER
TECHNOLOGY

5. Exit Quick Plot.

6. Select the decal cut and a non-cut print element in the job.

7. Output selected.

8. Apply overlaminate over entire job without anything cut out using a cold roll laminator or by hand.

9. Place in plotter and line up cut registration.

10. Press F8 (to cut job). This will cut the Gerber Guard with a 1/8 inch overlap that will protect the graphic. Weed away Gerber Guard.

The following application procedure is recommended when using Gerber Guard for **abrasion resistance**:

1. Print graphics.

2. Remove printed graphics.

3. Using a cold roll laminator, or by hand, apply Gerber Guard over the printed graphic.

4. Load laminated graphic into the plotter and line up the cut registration mark using the "bomb sight".

5. Set the tool force one division higher than what usually would be used for the base film selected. For example, if normal cut setting for Gerber HP 220 film is at 1.5 on the dial head, use 2.5. (A test cut should be performed to determine the ideal tool force setting.)

6. Cut and weed graphic as normal.

This film will not significantly affect the U.V. durability ratings of the base films it is applied to. For durability information, refer to the Product Bulletin for the specific base film.

CUTTING

A graphic that has been laminated with Gerber Guard can be cut using any 15-inch EDGE-compatible sprocketed plotter.

GS-15™ plotters or similar plotters can be set to full speed. HS-15™ and HS-15plus™ plotters should be set to 75%.

A test cut should be performed to determine the ideal tool force setting.

SHELF LIFE AND STORAGE

Apply film within one year of receipt. Gerber Guard should be stored in a clean area free from excessive moisture. Maintain temperature at less than 70°F (21°C).

MAINTENANCE

Clean the face of Gerber Guard with a mild, non-abrasive soap with a soft cloth or sponge. Avoid soaps containing grit or abrasives.

GERBER
TECHNOLOGY

PHYSICAL PROPERTIES

Construction	Polyvinyl chloride
Thickness	3.5 mil with adhesive
Film Color	Clear
Adhesive	PSA
Adhesive Color	Clear
Liner	78-lb white Kraft paper
Dimensional Stability	.015 in (.4 mm)
Application Temperature	50°F (10°C)
Removal Temperature	n/a
Operating Temperature	-65°F to 225°F (-60°C to 107°C)

CHEMICAL RESISTANCE

Chemical agent	Exposure time	Results
Water at 90°F (32°C)	24 hours	No effect
50/50 ethylene glycol/water	24 hours	No effect
Reference fuel	1 hour	No effect
SAE 20 motor oil	24 hours	No effect
JP-4 Fuel	1 hour	No effect
10% Hydrochloric acid	10 minutes	No effect
10% Ammonium Hydroxide	10 minutes	No effect
VM&P Naphtha	10 minutes	No effect
Mineral Spirits	10 minutes	No effect
Methyl Alcohol	10 minutes	No effect

RELATED LITERATURE

Refer to Product Bulletins of relevant foils and materials for product-specific handling, production, and finishing information.

CONTACT INFORMATION

For help with questions concerning Gerber products, please call your distributor or Gerber Customer Service at 1-800-222-7446 or (860) 644-1551. Visit us on the Internet at

GERBER
TECHNOLOGY

www.gerbertechnology.com/signage to learn more about our many other foils, materials and equipment.

Category: EDGE READY™	**FastFact #**: 5565	**Supplied by**: Aftermarkets	**Last Modified**: 02/27/18

GERBER
TECHNOLOGY