



GerberColor™ Spot (GCS) Series Foil

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DESCRIPTION

GerberColor Spot (GCS) Series Foils are durable, dimensionally stable, resin-based foils designed for use with GERBER EDGE® and EDGE 2 and EDGE READY™ materials. GCS Foils produce printed graphics capable of withstanding severe weather and handling conditions in both commercial and industrial applications.

PERFORMANCE LIFE

When printed on EDGE READY materials and applied vertically, GCS Foils will have the following performance life:

#	Spot Color	Life in years
1	GCS-10 White	4
2	GCS-12 Black	5
3	GCS-13 Tomato Red	4
4	GCS-14 Orange	3
5	GCS-15 Yellow	3
6	GCS-19 Brown	4
7	GCS-24 Terra Cotta	3
8	GCS-31 Grey	5
9	GCS-37 Cobalt Blue	4
10	GCS-38 Purple	3

11	GCS-39 Tan	3
12	GCS-46 Kelly Green	3
13	GCS-47 Intense Blue	4
14	GCS-49 Beige	4
15	GCS-53 Ruby Red	4
16	GCS-56 Dark Green	3
17	GCS-57 Olympic Blue	4
18	GCS-58 Burgundy	4
19	GCS-66 Forest Green	4
20	GCS-74 Kumquat	4
21	GCS-77 Peacock Blue	4
22	GCS-96 Teal	3
23	GCS-105 Imitation Gold	3
24	GCS-133 Raspberry	3
25	GCS-155 Lemon Yellow	3
26	GCS-176 Aqua	4
27	GCS-186 Green	3
28	GCS-196 Apple Green	3
29	GCS-601 Champagne Gold	3
30	GCS-603 Brick Red	3
31	GCS-616 Lime Green	3
32	GCS-620 Silver	3
33	GCS-625 Sunflower Yellow	4
34	GCS-627 Navy	3
35	GCS-628 Violet Purple	3
36	GCS-629 Copper	3
37	GCS-631 Gold	3
38	GCS-641 Dark Grey	3
39	GCS-643 Pink	2

40	GCS-663 Intense Red	3
41	GCS-668 Light Purple	4
42	GCS-681 Light Grey	3
43	GCS-687 Royal Reflex	4
44	<u>GCS-293 Atomic Red</u>	3
45	<u>GCS-697 Light Navy</u>	4

Performance statements are based upon field experience and exposure tests conducted throughout the United States using solid fill prints. Substrate selection, exposure angle, environmental conditions, and maintenance of markings will affect actual performance. Continuous exposure in regions that experience maximum sunny days will result in decreased performance. This product is not recommended for horizontal applications.

SHELF LIFE AND STORAGE

Shelf life of GerberColor Foils is one year. GerberColor Foils, film and printed graphics (with or without premask) should be kept in a clean area free from excessive moisture and direct sunlight. Store foils below 100°F (38° C) and within 40% to 60% humidity. When not in use, cartridges should be kept in their package sleeves.

MAINTENANCE

To clean printed graphics, use a mild, non-abrasive soap with a soft cloth or sponge. Avoid using alcohol-based cleansers or soaps containing grit or abrasives. Automated vehicle washing systems that use rotary cleaning brushes should also be avoided.

PRINTING

GCS Foils are compatible with EDGE READY materials. GCS foils are also compatible in overprint combinations (GerberColor Spectratone™) with the following GerberColor Series: GerberColor Process (GCP) SUPER CMYK™, GerberColor Transparent (GCT), GerberColor Medal (GCM). GCM Foils should not be used as the underlayer in an overprint construction. GCS Foils are not recommended for use with Heat Transfer Paper.

Minimum environment temperature for printing is 40° F (4° C).

PROTECTING GRAPHICS

Gerber Scientific Products, Inc. offers three products that are designed to protect vinyl and printed graphics.

Gerber Guard™ is a durable, dimensionally stable, glossy vinyl overlamine. This film has a petrochemical-resistant construction and is intended to be used when markings may be exposed to petrochemical spillage and/or severe handling conditions.

Gerber UVGuard™ is a custom-formulated, 1 mil, clear, TEDLAR® laminating film designed to further expand the resistance to weathering of graphics printed on Gerber High Performance Series 220 or 225 with Gerber Digital Color Printing Systems and GerberColor Foils. Gerber UVGuard will increase the durability of most GerberColor Spot, GerberColor Process SUPER CMYK, and GerberColor Transparent Foils to five years* even if they are exposed horizontally. In addition, Gerber UVGuard will allow for simple cleaning of graffiti and mildew. The adhesive system of Gerber UVGuard is petrochemical resistant.

(*The performance life of GerberColor Spot GCS-643 Pink will not be affected by Gerber UVGuard.)

Abrasion Guard™ is a clear, top-coat GerberColor Foil designed to protect graphics from moderate contact or handling.

APPLICATION TECHNIQUES

Gerber standard tack application tape is required for all graphics produced with Gerber Digital Color Printing Systems. Printed graphics should be allowed to cure for 15 minutes prior to the application of transfer tape.

PHYSICAL PROPERTIES

Foil	
Pigment	Resin Based
Coating Thickness	3.5 to 4.1
Liner Thickness	5.7 microns
Foil Length - Minimum	45 meters (49.21 yards)

Cartridge	
Cores	Polyethylene
End Shell	ABS Plastic
End Plugs	ABS Plastic
Side Rails	ABS Plastic
Cartridge Weight	1 lb. 12 oz.

CHEMICAL RESISTANCE

Chemical Agent	Exposure Time	Result
Water	24 hours	No effect
SAE Motor Oil	24 hours	No effect
50/50 Ethylene Glycol/Water	24 hours	No effect
10% Hydrochloric acid	10 minutes	No effect
10% Ammonium Hydroxide	10 minutes	No effect
Mineral Spirits	10 minutes	No effect
Dish Detergent/Water	24 hours	No effect

RELATED LITERATURE

See Product Bulletins for: GerberColor Process (GCP) SUPER CMYK, GerberColor Medal (GCM) Series, GerberColor Transparent (GCT) Series, GerberColor Special Effects (GCX) Series, GerberColor Finishing (GCF) Series, Gerber Guard, and Gerber UVGuard Product.

For help with questions concerning Gerber products, please call your distributor or Gerber Customer Service at 1-800-222-7446 or (860) 643-1515, or on the Internet at www.gspinc.com.

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