



GerberColor™ Foil Flood Coat White

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DESCRIPTION

GerberColor™ Special Effects Series Flood Coat White (GCX-010) Foil is a durable, resin-based pigmented foil designed for use with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with EDGE READY™ materials. Flood Coat White features an extra-heavy pigment construction that allows a highly opaque white foil to be applied in a single pass.

Color Name	Pigment Code
Flood Coat White	GCX-010

INTENDED APPLICATIONS

As its name suggests, this foil has been designed primarily for flood coating reverse-printed graphics on clear films. The user must determine the suitability of Flood Coat White for all other application such as text and small shape printing, or electrically illuminated backlit signs.

Most materials that this foil would be printed on are not intended for use where they may be exposed to petrochemical spillage. If petrochemical contact is anticipated, refer to the section below on protecting graphics. The user must determine the suitability of applications to all final substrates.

PERFORMANCE LIFE

Flood Coat White has an expected outdoor durability of up to four years when applied vertically.

Due to the heavy pigment construction of this white foil, chalking may result in certain outdoor applications. To reduce the potential of chalking, we recommend the use of GerberColor

Abrasion Guard™ SPF (GCF-214) or Matte Clear (GCF-334) Foils as an overprint for exterior applications where the printed foil is in direct contact with outdoor conditions.

Note: Durability statement is based on accelerated aging using solid fill prints. Actual durability may vary. 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. Due to the extra thickness of the Flood Coat White pigment, contact with abrasive surfaces or high-tack tapes, such as cellophane tapes, may split or lift the top portion of the printed image.

SHELF LIFE AND STORAGE

As a result of the extra-heavy pigment construction and special chemistry used to achieve Flood Coat White's high opacity an effect called "handle flake" may be encountered. This effect, a flaking of foil off its polyester liner, is evident when the foil is not under tension and the cassette is handled roughly. To minimize the effect of handle flake, we recommend that this foil be handled gently and stored under tension using the original packaging materials including the round foam core locks.

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 at 40°F to 90°F (4°C to 32°C) and 40% to 60% humidity. When not in use, cartridges should be kept in their package sleeves.

PRINTING

This foil has been designed primarily for flood coating reverse-printed graphics onto clear films. In this manner EDGE® Series printer owners should apply the foil as the final overprint color on top of other printed colors. Flood Coat White should be applied in large areas, or full printing width and not applied as shapes or text of any size.

Flood Coat White is compatible as the overlayer in overprint combinations with the following GerberColor Series: GerberColor Spot (GCS), GerberColor Process Pro™ CMYK (GCP), and GerberColor Transparent (GCT) Series Foils.

GerberColor Spectratone™ matches, fine lines, halftones, text and shapes printed close together are not recommended. Text of any size or irregular shape printing may result in over-transfer or bridging in areas that are not intended to be printed. Flaking can result where the over-transferred portion of the graphic encounters the squeegees located on the EDGE. The flakes are difficult to remove from the EDGE and may affect subsequent printing. Overtransferred foil can be removed by applying standard tack application tape to the overtransferred area, then removing the tape. (Printed graphics should be allowed to cure for 15 minutes before the application of transfer tape.)

GerberColor Flood Coat White (GCX-010) is not a substitute for GerberColor Spot or Arctic White (GCS-10 or GCS-710). For small text printing, halftone blends and fades, detailed primer applications, detailed underlayer printing and Spectratone applications, use GerberColor Spot or Arctic White.

Recommended working environment is as follows:

- Operating temperature: 50°F to 95°F / 10°C to 35°C
- Recommended temperature for assured printing accuracy: 68°F to 78°F / 20°C to 26°C
- Operating humidity: 20% to 90% relative humidity, non-condensing (maximum range; actual range varies by material used)

As of the release of this bulletin, Flood Coat White is compatible with all EDGE READY materials except EDGE Positive™, Heat Transfer Paper, and GerberVision™ manufactured by 3M. Lot to lot variations can produce slight visual differences in color output.

Due to the potential of “handle flake” – see Shelf Life and Storage Section below -- user should follow standard EDGE maintenance instructions for the cleaning of the head, squeegees and sprockets after using Flood Coat White.

PROTECTING GRAPHICS

Gerber Technology offers products that are designed to protect vinyl and printed graphics.

Gerber Guard™ manufactured by 3M 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 polyvinyl fluoride (PVF) laminating film designed to further expand the resistance to weathering of printed graphics up to five years.

Gerber UVGuard™ 9 manufactured by 3M is a 2-mil, glossy, clear, mildew-resistant, polyvinyl fluoride laminating film with a petrochemical-resistant adhesive system. It is designed to further expand the resistance to weathering of printed graphics up to nine years. Gerber UVGuard 9 has the highest protection from UV fade.

Gerber StrikeGuard™ is an 8.0-mil, clear, glossy overlamine film designed for a variety of applications. This heavy-duty overlamine film is ideal for the protection of graphics, up to two years, and is especially beneficial where printed graphics experience severe handling and forceful impact. Gerber StrikeGuard is not recommended in applications that require petrochemical protection or where additional UV or vandal resistance is desired.

Abrasion Guard™ SPF (Sign Protection Formula) is a clear, top-coat GerberColor Finishing Series (GCF) Foil designed for use with EDGE® Series thermal transfer printing systems, to protect graphics from moderate contact and exposure to harmful effects of UV rays. It has an expected performance life of five years (when printed by itself). When applied as a protective overprint on other GerberColor Foils, Abrasion Guard SPF will extend the life of the base color by up to 30%.

Matte Clear is a clear matte finish, top coat GerberColor Foil designed for use with EDGE® Series thermal transfer printing systems, to reduce glare and protect graphics from moderate contact or handling. It has an expected performance life of three years.

APPLICATION TECHNIQUES

Gerber standard tack application tape is required for all graphics produced with EDGE® Series thermal transfer printing systems. Printed graphics should be allowed to cure for 15 minutes before the application of transfer tape.

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.

PHYSICAL PROPERTIES

Foil	
Pigment	Resin Based
Coating Thickness	12.5 to 13.5 microns
Liner Thickness	5.7 microns
Foil Length - <i>minimum</i>	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 (Printed on Gerber High Performance Series 220)

Chemical Agent	Exposure Time	Result
Water	24 hours	No effect
SAE 20 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

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 www.gspinc.com to learn more about our many other foils, materials and equipment.

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