

See "Rigid Material Application Notes" and manufacturer's website for specific, detailed guidelines and instructions.

GENERAL INFORMATION

MATERIAL DESCRIPTION

MightyCore Matte by EnCore (formerly Bienfang Products, and now a division of Elmer's Products, Inc.) is a lightweight, durable, extra-strong performing foam-board, with a rock-solid center. This is the strongest product of its kind now available for indoor use and features a smooth paper finish and chemical-free construction offering ideal ink coverage and adherence.

RECOMMENDED APPLICATIONS

- P-O-P Displays
- Exhibits & Kiosks
- Framing
- Signage - Interior

CAUTIONS

1. Be specific when ordering material as there are many similar materials and finishes, yet performance and results will vary significantly, even among like materials.
2. Be sure to measure dimensions of material prior to printing as they are not always consistent.
3. The following may cause adverse effects on ink adhesion and durability:
 - Failure to acclimate material to ambient conditions for at least 24 hours
 - Failure to print under recommended ambient conditions.
 - Neglecting to properly clean the print surfaces. This will allow debris to be visible after printing.
 - DO NOT use liquid cleaners as they may stain and/or severely damage the printing surface.
4. Ink adhesion increases at higher pass modes (8 Pass > 4 Pass > 2 Pass).

WARNING: Be sure that material is completely flat. Bent edges may cause damage to printheads and/or other hardware. Tape down edges as necessary. Leaning may cause warping.

PERFORMANCE TESTING RESULTS

See "Material Performance Testing Process" document for process explanation and test conditions.

ADHESION TESTING

Tape Test: Level 5, Excellent
Cross-Hatch Test: Level 5, Excellent

ABRASION RESISTANCE

Level 5, Excellent

CHEMICAL RESISTANCE

Not Applicable.

OUTDOOR DURABILITY

GerberCAT inks are outdoor durable for up to 3 years. Consult material manufacturer for durability of substrate. Testing of application in intended environment is advised.

TESTED PRINT CONDITIONS

AMBIENT TEMPERATURE

70°F (21°C)

AMBIENT HUMIDITY

40%, non-condensing

PRINTER RESOLUTION

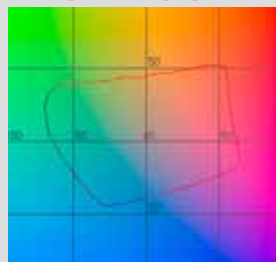
360 dpi

PRINT MODE

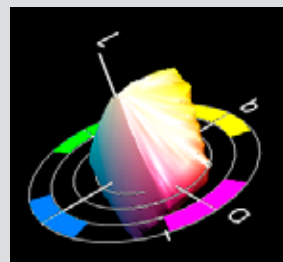
4 Pass, Unidirectional

COLOR GAMUT

2-DIMENSIONAL



3-DIMENSIONAL



MATERIAL HANDLING RECOMMENDATIONS

STORAGE

1. Flat, horizontally only. Leaning will allow warping.
2. Cool, dry, clean area with stable temperature.

SURFACE PREPARATION

1. Print surface should be free and clear of any surface contaminants (i.e. oils, dust, fingerprints, etc.) prior to printing. Wipe with a clean, dry, non-abrasive cloth.
2. If surface has become soiled or scratched, it may be lightly hand sanded with a silicon carbide dry paper 180 grit or finer. Ensure that any remaining loose dust is completely removed from the substrate.

POST-PRINT

Ink cures enough to be touched immediately without adverse effect. Full cure occurs between 15 minutes and 24 hours dependent upon material and ambient conditions. Cutting, routing, or any additional undertakings should run flawlessly. If any flaking or cracking occurs, allow to sit 24 hours for full cure.

For irregular cuts and shapes use standard wood router. Easily cut MightyCore with standard table and band saws as well as wood-working saws. It can be cut by hand with mat knives, utility knives, and razor blades as well as cardboard and glass cutters. The key to getting a smooth, clean cut is to use a very sharp thin blade held at as low an angle as possible to the board, which reduces friction. If a straightedge is being used as a guide, it may be practical to make the cut in more than one pass.

See manufacturer's website for more information.

COLOR MANAGEMENT

RECOMMENDED RENDERING INTENTS

CMYK Vector: Relative colorimetric

CMYK Image: Perceptual

RGB Vector: Relative colorimetric

RGB Image: Perceptual

MATERIAL PROFILES

The recommended profile can be downloaded from the corresponding materials page on the gspinc.com/applications webpage.

CAUTION: Failure to manage color settings consistently throughout the entire workflow, from image generation through final print, will result in guesswork and unpredictable and potentially unfavorable end results.