

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

## GENERAL INFORMATION

### MATERIAL DESCRIPTION

Multipanel U.K. Alupanel is comprised of two 0.3mm pre-finished, polyester coated, colored aluminium sheets, each with a different finish, on both sides of a polyethylene core; The gloss side has "Multipanel UK" logo printed on it while satin side has plain film. Dimensionally stable at temperature extremes; Excellent impact, weathering and UV resistance; Flat smooth surface; Competitively priced. All panels come with a 5 year manufacturer's warranty.

### RECOMMENDED APPLICATIONS

- P-O-P displays
- Exhibits & Kiosks
- Interior signage
- Exterior signage

### 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.
  - Failure to remove the protective plastic layer 24 hours prior to printing in order to allow proper "outgassing."
  - Neglecting to properly clean the print surfaces. This will allow debris to be visible after printing. Ensure that 99% isopropyl alcohol is used for cleaning.
  - Using thinners or soaps which may leave a film residue which can affect adhesion. Additionally, cleaners containing silicone can interfere with adhesion and are not recommended.
4. Ink adhesion increases at higher quality modes. (Quality 1 Uni > Production 1 Uni > Performance Uni).

**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

Level 5, Excellent

### 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

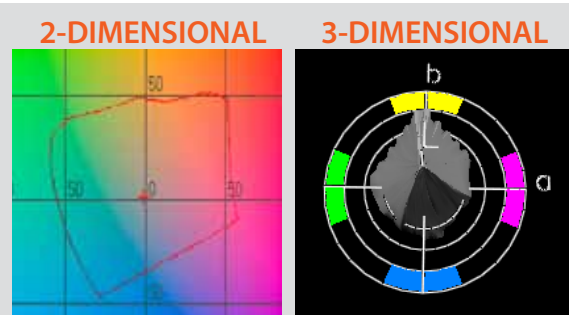
### PRINTER RESOLUTION

635 x 720 dpi

### PRINT MODE

Production 1 Unidirectional

## COLOR GAMUT



## MATERIAL HANDLING RECOMMENDATIONS

### STORAGE

1. Flat; If leaned, on long (horizontal) edge only.
2. Do not stack vertically.
3. Cool, dry, clean area with stable temperature.

### SURFACE PREPARATION

1. Remove protective plastic layer and allow to outgas for 24 hours prior to printing. The gloss side has the "Multipanel UK" logo printed on it; the satin side has a plain film. Due to the nature of the finishing process the paint has a directional quality. Care must be taken when using multiple sheets to ensure that panels are printed on and installed in the same direction. This can be ensured by following the direction of the Multiple/Alu panel logo and the arrows on the protective film.
2. Print surface should be free and clear of any surface contaminants (i.e. oils, dust, fingerprints, etc.) prior to printing.
3. Clean with 99% isopropyl alcohol, using a non-colored cloth. Best results have been obtained when applying the alcohol to the wiping cloth rather than directly to the material and when wiping in a straight-line motion rather than circular.

### 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; Manufacturer recommends cutting speed of 3000 - 5000 m/min and a feed speed of 25 - 30 m/min and for drilling a cutting speed of 50 - 300 m/min with a feed speed of 0.02 - 0.5mm / revolution. If any flaking or cracking occurs, allow to sit 24 hours for full cure.

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](http://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.

