

TECHNICAL DATA SHEET

GF 500MR SERIES CUT & CRAFT VINYL

3.0 MIL MATTE COLORED VINYL CLEAR REMOVABLE ADHESIVE

GF 500MR Series Matte Removable Cut & Craft vinyl contains a selection of 3.0 mil matte white, black, clear and color films, coated with a removable acrylic pressure-sensitive adhesive on a 78# clay coated liner. This film is designed for roll-fed plotter cut vinyl graphics as well as sheeted material for home craft applications. This product is recommended for wall decoration or temporary applications requiring clean removability. The tight release liner allows for easy weeding and is compatible with most application tapes.

PRODUCT NAME	500MR SERIES
FILM	
Film Type	Colored Intermediate Vinyl
Film Thickness (mils/ μ m)	3.0 / 76 (+/- 10%)
Film Weight (gsm)	104
Gloss (60°)	\leq 30
Opacity (%)	94 (average - varies by color)
Tensile Strength (lbs/in)	MD \geq 3500 / CD \geq 3500
Elongation (%)	MD \geq 200 / CD \geq 200
Dimensional Stability (FTM 14)	MD \leq 0.30 mm / CD \leq 0.20 mm
ADHESIVE	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/ μ m)	0.8-1.0 / 20-25
Adhesive Color	Clear
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	1.5 / 6.6
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	2.5 / 11
LINER	
Liner Weight (#/gsm)	78 / 127
Liner Type	White Clay Coated Kraft
Liner Thickness (mils/ μ m)	4.5 / 114
Release Force @ 360" / min (g/2")	25-60
PERFORMANCE GUIDANCE	
Application Temperature	\geq +40 °F
Service Temperature	-40 °F to 200 °F
Shelf Life	1 year
Storage Temp / Rel. Humidity	70 °F / 50%
Indoor Durability	up to 3 years (vertical)
Removability	Up to 1 year

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PRODUCT SNAPSHOT	APPLICATIONS	INK TYPE
<p>APPLICATION</p> <ul style="list-style-type: none"> <input type="radio"/> WET APPLY <input checked="" type="radio"/> DRY APPLY <input type="radio"/> HOT STAMP <input checked="" type="radio"/> DIE CUTTABLE <input type="radio"/> HOT KNIFE <input type="radio"/> THERMAL DIE <input checked="" type="radio"/> FLATBED CUTTABLE <input type="radio"/> CONTOUR CUTTABLE 	<ul style="list-style-type: none"> <input checked="" type="radio"/> POP/RETAIL <input checked="" type="radio"/> WALL <input type="radio"/> WRAP <input checked="" type="radio"/> WINDOW <input type="radio"/> FLOOR <input type="radio"/> TRANSLUCENT <input type="radio"/> FLEET/TRANSIT <input checked="" type="radio"/> GENERAL SIGNAGE <input checked="" type="radio"/> INDOOR <input checked="" type="radio"/> OUTDOOR 	<ul style="list-style-type: none"> <input type="radio"/> SOLVENT <input type="radio"/> ECO-SOLVENT <input type="radio"/> LATEX <input checked="" type="radio"/> UV CURABLE <input checked="" type="radio"/> SCREEN <input type="radio"/> OFFSET <input type="radio"/> THERMAL TRANSFER
<p>SUBSTRATES</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> OEM PAINTED METAL <input checked="" type="radio"/> GLASS <input type="radio"/> POLYESTER <input checked="" type="radio"/> SMOOTH PAINTED DRYWALL <input checked="" type="radio"/> ACRYLIC 		

FAQ

What types of transfer tape should I use with the GF 500MR Series?	In most instances a medium tack application tape should work, such as TransferRite® 6582. For multiple color alignments, we would recommend using a frosted matte tape such as TransferRite® 1510 or a clear tape such as TransferRite® Ultra® 1310 Clear.
Can I use GF 500MR Matte Removable Series Vinyl on painted drywall?	Absolutely! GF 500MR Series is designed with an adhesive that will stick to most smooth painted drywall surfaces with the ability to remove the decal without any adhesive residue for up to 1 year. Because substrates and paints vary widely, we recommend you test this product before use, especially with Low or No-VOC paints. Freshly painted surfaces must be thoroughly cured before GF 500MR Series vinyl application.
What is the expected exterior lifetime of these products?	Different films and pigments will fade at different rates, but what our lab and extended life testing reveals is that there will be minimal color fade for up to 5 years under normal exposure conditions. Please note that the adhesive will lose its clean removability over time.

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GF 500MR SERIES APPLICATION INFORMATION

RECOMMENDATIONS

Wall Types:

Use GF 500MR Series on painted drywall only, it is not approved for unpainted or unsealed drywall. Textured walls are NOT recommended, as contact with the adhesive will be limited. A smooth, defect free wall is required. Avoid application to wall surfaces with stucco, brick, or heavily textured finishes. DO NOT place decals in or above cribs or within reach of young children, as a choking hazard can result.

Paint Types:

GF 500MR Series is ideally suited for smooth painted surfaces. This includes most flat, semi-gloss and gloss paint finishes. There are many paints on the market and not all of them are ideal for creating a good bond between the graphic and the painted surface. In recent years there have been many low VOC and no VOC paints released that have reduced volatile organic compounds. These paints may be beneficial for certain environments, but could pose challenges with the adhesion of some vinyl's to these types of painted surfaces. We recommend testing all surfaces before application and even before producing your graphics, to validate the specific surface for adhesion compatibility.

Dry times:

Clients may sometimes wish to paint a wall right before an installation. Drying can sometimes take up to 30 days depending upon conditions (humidity, ventilation, temperature, etc.) A wall that is totally dry is only cured completely if you can wash it. Avoid enamel paints and oil based paints, as their dry times are very hard to predict. When in doubt, consult the manufacturers' dry time specifications. Applying any adhesive backed graphics to a wall that is still "curing" or "outgassing" will almost always result in bubbles in the graphic or delamination of the graphic off of the surface.

Preparing the Surface:

Once you know the paint is dry, it is time to prepare the surface so that nothing will impede the bond between the adhesive and wall. If there are still flaws or inconsistencies in the surface, they must be repaired. This may include light sanding or taking a plastic putty knife or plastic razor to raised areas to eliminate these irregularities. We recommend using a damp, lint free cloth to wipe down the surface and remove dust, dirt and other residues that may have accumulated. Make sure surface is completely dry before starting any application.

Wall Preparation:

Wall temperature should not be less than +40 degrees F. Walls must be clean and dry. Wash wall with warm, clean water using a damp cloth or sponge. If a stronger cleaner must be used, make sure the wall is thoroughly rinsed of any detergent residue and wipe one final time with a 50/50 solution of water and isopropyl alcohol or TSP cleaner from local hardware store.

NOTE 1: Failure to repair any wall issues before installation may result in damage to the painted drywall during the removal process and can show up in the finished graphic surface. General Formulations is not responsible for any damage to walls.

NOTE 2: Most challenges occur on walls that are not properly prepared. Although a wall may "look" clean, there can be a variety of dirt, dust, oils, and other items that can interfere with adhesion. Take note of AC and Heating vents, as they can have an effect on the installed graphic(s).

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GF 500MR SERIES APPLICATION INFORMATION

RECOMMENDATIONS (CONTINUED)

Unwarranted Surfaces: Although other vertical surfaces may work well for GF 500MR Series, we recommend you always test first. There are many factors that can affect the suitability of the surface. We do not recommend CC500MR be applied onto the following: Elevator doors (some have a coating on the stainless steel doors*), rough wood, textured walls, wall paper, glazed tile, stucco, or floor surfaces. Please pretest and preapprove all surfaces.

* We recommend contacting the elevator door manufacturer for the exact construction and surface of the doors. Cleaning agents used to clean the doors can have a profound affect as well on adhesion levels, bubbling and overall performance. An on-site facilities manager should be able to assist you with this information. Testing is a must and stainless steel does not represent a warranted surface.

SUMMARY: Each application presents its own unique challenges. In each case we encourage you to choose a product that works well for the intended use. In certain cases you may want a low tack removable or even a high tack permanent adhesive; whatever works best for the painted surface. Please contact a General Formulations' representative for further recommendations.