

REXAM IMAGE PRODUCTS TECHNICAL BULLETIN

REXAM™



Display Paper & Film

Rexam offers a variety of ink jet products that can be used to produce digitally printed custom decorative wall murals for both residential and commercial applications. The DMiBOP10 product is available for use in wide format ink jet printers. The GFIO140, GFIO212, and GFTRP products are available for super wide ink jet printers. These products have unique physical properties, which make printing and installing custom wallcovering easy. All the products are latex-saturated papers with excellent wet and tear strength properties. The DMiBOP10 and GFTRP products have nylon-reinforced base sheets that result in even higher tear strength properties. These products are compatible with a variety of printing systems and common wallpaper pastes. All product base sheets meet the flame spread requirements according to the ASTM E84 tunnel test procedure. All products with a protective coating, such as Rexam's Fluorex Transfer Protection product (DMFTP), meet the surface durability characteristics for wallcoverings (ASTM F-793).

PHYSICAL PROPERTIES

	<u>DMiBOP10</u>	<u>GFIO140</u>	<u>GFIO212</u>	<u>GFTRP</u>
Basis Weight (oz/yd ²):	6.7	4.1	6.2	6.1
Basis Weight (g/m ²):	228	140	212	209
Caliper (mils):	11	6	9.9	9.7
Caliper (microns):	281	153	253	247
Opacity (%):	97	95	95	94.5
Whiteness:	104	83	83	83
Wet Expansion (%):	3	2	2.07	2.67
Tensile Strength (psi) (MD/CD):	3330/2630	2500/1369	3600/2304	2500/961
Tear Strength (g) (MD/CD):	153/211	115/110	200/185	365/382
% Elongation (MD/CD):	10/18	9.3/16	8/14	9.3/16
Indoor Life Expectancy:	1 year+ when pigmented inks are used. Lamination will also increase product life.			

PRINTING GUIDELINES

Printer & Ink Compatibility:

DMiBOP10 can be printed in Hewlett-Packard DesignJets with dye and UV inks, Encad NovaJets GO, GS & GA inks, ColorSpan Displaymakers with UltraWide Gamut & PermaChrome inks, Epson 9000 and other piezo water-based pigment systems. Ink coverage up to 250% is recommended. Higher ink saturation can affect waterfast properties and show ink bleed in heavy saturation areas. **It is recommended to print with pigmented inks when per forming wallcovering applications. Pigmented inks increase light and waterfastness.**

GFIO140, GFIO212, & GFTRP products can be used in Vutek, Nur/Salsa, and Idanit/Scitex printers.

Printing Guidelines:

Wallcovering jobs are usually performed in panels. Panels should contain a 1" overlap. This will help to match the pattern across panel seams. Be sure to number the panels and provide a map indicating panel segments to the installer. Due to the heavy gauge of these material, they can feed through the printers at different rates, which can cause print alignment issues. Check the printer manual for alignment options. HP printers have a page accuracy option in their software. Use the optimize setting to aid in panel alignment.

SURFACE PROTECTION RECOMMENDATIONS

Surface protection:

Rexam's Fluorex Transfer Protection (DMFTP) provides the easiest, most effective surface protection and is the **primary** finishing option. DMFTP consists of a thin, flexible Fluorex™ coating that provides excellent surface protection against stain, weather, UV light, graffiti, abrasion, and chemicals. It is easily applied using heat roll laminators similar to Rexam's Electrographic Dry Transfer Paper. DMFTP is an excellent solution for wallcoverings because it does not interfere with hanging procedures. The wallcovering materials maintain their flexibility and feel. Refer to the DMFTP Product Application Guide for lamination guidelines.

A clear liquid laminate can also be used to protect the surface against dirt and stains. There are several manufacturers of liquid laminates. Rexam wallcovering products have been tested with Clearstar liquid laminate products. Clearshield is recommended when printing with UV inks. Clearjet is recommended when printing with dye inks. Liquid laminates provides water, stain, abrasion, chemical, graffiti, and UV resistance. Liquid laminates are applied prior to installation. Product with liquid laminates meet surface durability requirements for wallcovering (ASTM F-793). Liquid laminate application methods include: aerosol, roller, pad, and liquid laminators. More information can be obtained on Clearstar liquid laminates by logging onto their website: www.clearstarcorp.com

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INSTALLATION GUIDELINES

Consult with and use a professional paperhanger to perform the installation. The products can be handled in the same manner as vinyl coated paper (standard wallpaper).

Wall Preparation:

Wall should be prepped so that it is smooth, clean, and dry prior to installation. Wallcovering doesn't hide the are more than wall surface flaws such as: nail holes, bumps, or dirt. Glossy painted surfaces should be dulled with sand paper and rinsed with water. Primer sealer should be used on unpainted drywall. Priming provides a sound surface that wallcovering will adhere to. It is recommended to strip down previous layer of wallcovering. The wallcovering may seem to be firmly adhered to the wall, but the addition of another layer can cause adhesion failure.

Sizing should be applied once the primer is dry and if future removal of mural is anticipated. Sizing a wall surface provides even porosity and a better level of adhesion. Sizing may not be necessary depending on the condition of the wall surface.

Paste Information:

Follow paste manufacturer guidelines for paste application. Book panels for 10 minutes. Standard pastes provide adequate adhesion and allow for easy stripping when wallcovering needs to be removed or replaced. Most commonly used pastes are Rowan Professional Heavy Duty Clear Pro 838 and Golden Harvest 1st Choice. **As a general rule, select a paste that is recommended for vinyl coated papers.**

Panels & Double Cutting:

Panels should be hung by standard procedures. Align top and adjoining edge. Smooth panels into place with a smoothing brush. Start at the end of the panel and work toward the edges. Use a plastic squeegee to push air pockets to the edges. The low expansion of this product allows you to double cut seams. **Overlapping seams is not recommended. Better performance is seen with double cut seams.**

PRODUCT LIFE EXPECTANCY

There is no simple way of predicting product life expectancies. End users have different ways of judging product degradation over time. The graphic may fail for different reasons (ie. change in product gloss, shift in color, delamination). **Rexam wallcovering products have a 1 year+ indoor life expectancy. Product life will increase if surface protection such as Rexam DMFTP (Fluorex Transfer Protection) or a liquid laminate is applied.** Pigmented inks provide light and waterfastness. Protected digital wallpaper should last as long if not longer than traditional wallcovering.

- Fading:** Pigmented inks will provide the greatest lightfast properties. Results will vary depending on usage and end use application. Inks will fade faster when graphic is placed in direct sunlight or has constant exposure to fluorescent or mercury vapor lighting.
- Edge Peeling:** Edge peeling can occur if the wrong adhesives/pastes are applied or the graphic is installed incorrectly. Professional wallpaper hangers should be used to ensure proper installment. Excessive and improper cleaning of graphic can also cause premature failure.
- Shrinkage:** Rexam wallcovering materials have excellent wet strength properties and do not have a tendency to shrink. The wet strength property allows for double cut seams or butt joints to be performed.

FLAMMABILITY DATA

Rexam wallcovering products were fire tested and rated following ASTM E84 test method. The purpose is to ensure the materials used inside buildings are not highly flammable or cause poisonous smoke. The desired classification for wallcovering is class A. **All of Rexam's ink jet wallcovering products fall under class A.** More information can be found on our website. Refer to the technical bulletin: Fire Test Data on Rexam Wallcovering Display Media

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