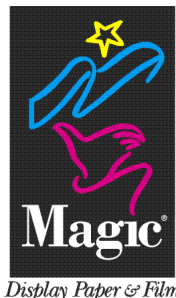


# MAGIC® APPLICATIONS GUIDE

## DMiBOP10 & DMiBOP10RG

### REINFORCED WET STRENGTH

### INDOOR/OUTDOOR INK JET BANNER PAPER



**MAGIC® DMiBOP10(RG)** is an economical alternative for short-term, indoor promotional banner applications where high tear strength is not required. DMiBOP10 can also be used in indoor wallcovering applications. If outdoor use is desired, the material can be posted onto a rigid surface to prevent environmental or wind-induced tears. Latex saturation and nylon make it more than just a wet strength paper! DMiBOP10 is intended for use in all Encad, HP DesignJet®, Epson 9000 and piezo technology wide format printers. DMiBOP10RG is intended for use in the Raster Graphics Piezo Print™ 5000.

## PHYSICAL PROPERTIES

Basis Weight:	6.7 oz/yd <sup>2</sup> (228 g/m <sup>2</sup> )	Optimum Print RH:	20-60%	Tensile Strength (MD/CD):	52/33 lbs/in
Caliper:	11 mil (280 microns)	Optimum Print Temp.:	70°F (21°C)	Ultimate Elongation (MD/CD):	30/60 %
Opacity:	97%	Flame Spread		Wet Expansion:	3%
Whiteness:	104	Classification:	Class A**	Outdoor Life Expectancy*:	2 months
Brightness:	95			Indoor Life Expectancy*:	6 months

\*Based on manufacturer's accelerated age testing. **Lamination will increase life expectancies.** Results may vary based on usage.  
\*\*Based on ASTM E84 test method

## APPLICATIONS GUIDELINES

**Outdoor and Indoor Banner:** This product is recommended for only indoor banner applications.

**Printer & Ink Compatibility:** DMiBOP10 can be printed with Hewlett-Packard DesignJet®, Encad NovaJet®/Pro/Proe, ColorSpan® Displaymakers, Epson 9000 and piezo water-based pigments. DMiBOP10RG can be printed with PiezoPrint 5000 inks. **It is recommended to use pigmented inks.** Although dye-based inks provide a higher color gamut, ink fade can occur. Inks NOT recommended for use are Encad GX, Ilford® Archiva™ and ColorSpan® EnduraChrome inks because premature fading is known to occur.

**Water Resistance & Surface Protection:** To obtain a high degree of water resistance, use only pigmented ink. Lamination is not required. Ink coverage of up to 250% is recommended, because higher ink saturation can affect the waterfast properties and show ink bleed in heavy saturation areas. Dye-based inks will yield good color gamut, but bleeding may occur when the image gets wet. Over laminating dye-based ink will not eliminate image bleed, unless the material is completely sealed to a non-porous surface or encapsulated. If water migrates under the laminate, at an exposed edge or along the perforations of a stitched hem, a water mark can form and dye-based inks can bleed. To avoid perforating the laminate, use banner tape to put a hem on the banner (see Tape Hem section below). Let the image dry 24 hours before exposing to moisture. Dirt and stains can not be cleaned from the imaged surface and the surface can be damaged from excessive folding or creasing, so overlaminating is recommended to help protect it.

**Printing Guidelines:** To optimize print quality, printers should be set for highest print quality and media selection should be "HEAVY COATED." Printer settings for the Raster Graphics Piezo Print™ 5000 is overlap: 25%, speed: 2X, Strikes: 2 and write direction: "Bi-direction." Due to the heavy gauge of the material, this product can feed through the printers at different rates causing print size to vary slightly from print to print. Images sized in a software application may be printed slightly smaller than anticipated

**Material Handling & Storage:** Once the print is completed, roll imaged media onto a core until ready for posting. Folding of the material is not recommended. After use, the material should be stored in its original packaging in the poly bag suspended on the end boards. The material should be stored a 72<sup>0</sup> F (+/-5<sup>0</sup>) for no more than 1 year.

## FINISHING RECOMMENDATIONS

**Wallcovering:** Refer to the inkjet wallcovering technical bulletin for complete wallcovering guidelines.

**Banner Installation:** Improper installation can cause premature banner failure. It is recommended that a professional installer be used.

**Tape & Stitched Hem:** Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch or cause coating pick-off. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch, with a maximum of five stitches per inch and corner reinforcements are recommended.

**Grommeting:** Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers. Corner grommets should be placed where the length and width hems cross, so that the grommet is through four layers. A reinforced corner is also recommended to increase durability.

**Laminating:** New Magic Fluorex® Transfer Protection - DMFTP - ultra thin (3 micron), graffiti-resistant overlamine, is an ideal solution for banner materials. To learn more about DMFTP, visit [www.magicinkjet.com](http://www.magicinkjet.com). A vinyl pressure-sensitive overlamine is recommended. However, overlaminating one side may cause the product to curl toward the laminated side. Let image dry 24 hours before laminating.

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For more information, call 1-800-628-8604,  
or visit our website: [www.magicinkjet.com](http://www.magicinkjet.com)

\*Most updated version of this guide can be obtained on our website.

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