



# TECHNICAL ASSISTANCE

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## Mactac® Floor Graphic System

**The most promising area of promotion may be right under your feet.** At Mactac, we have the right combination of print media and overlaminates to produce a high-performance floor graphic system, which is slip resistant, “High Traction”, durable and best of all, eye-catching

### **The Mactac Floor Graphic System: As easy as 1- 2 - 3.**

Typically found in retail and grocery stores, museums and event venues, floor graphics can be produced for environments ranging from low to high foot traffic areas and for short to long-term use. The Mactac Floor Graphic System consists of performance-matched overlaminates and base films for all printing methods, as well as installation assistance. Simply answering the following questions will help you select the right components for your floor graphic application and ensure a successful installation.

#### **1) Print media: What is your preferred printing method?**

Mactac Floor Graphic Systems can be built using a wide variety of printing methods, including:

**a) Solvent, Eco-solvent, Latex and UV inkjet:** Digitally print your image directly onto IMAGin® digital imaging media. *Solvent and eco-solvent inkjet prints must be dried for a minimum of 24 hours, open to the air prior, to laminating!* Mactac media is available with a matte or gloss finish and with a permanent or removable adhesive. Additionally, we have StreetRAP™ with an ultra-aggressive adhesive for unsealed concrete and JT5828HTO for industrial carpeting!

**Removable white matte - JT5828R, RB228R or PVG828R**

**Removable white gloss - JT5829R or PVG829R**

**Removable clear gloss – JX999R, RB599R or JT899R**

**Permanent matte white - JT5828HTO for smooth Industrial interior carpeting only!**

**Permanent matte white for concrete – StreetTRAX STX1528P, StreetRAP STR328 both for interior and exterior unsealed concrete only!**

**b) Screen printing:** Screen print your image onto REBEL™ Series, IMAGin StreetRAP with UV and solvent screen printing inks.

**Removable white matte – RB228R or RB528R**

**Removable white gloss - RB529R**

**Removable clear gloss - RB599R**

**Permanent matte white - RB528P**

**Permanent matte white for concrete - StreetRAP STR328**

**2) Overlaminates:** What is the intended traffic pattern and how long does the graphic need to be down? Overlaminates are critical to the success of a floor graphic. They protect and seal the image while offering excellent slip resistance for the creation of a safe walking surface. These laminating films can be applied over most properly printed and cured inkjet and screen printed images. Extra wet-out time may be required on some images to reduce silvering and build to a strong bond prior to rolling for shipment.

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**Permacolor PermaFlex® IP6200**, a 5-mil textured polycarbonate film, has superior abrasion resistance for high foot traffic applications and long-term installations. IP6200 is for indoor use only with a durability of up to three years.

**Permacolor PermaFlex PF6600**, a 6-mil medium term textured vinyl with high Traction rating according to ANSI/NFSI B101.3 and B101.1. ***PF6600 is the only laminate to use with StreetRAP, on exterior sidewalks with a durability of up to 3 months. PF6600 is also the laminate to use inside if wet conditions are expected.***

**Permacolor PermaFlex PF6300**, a 5-mil textured vinyl with good abrasion resistance, designed for medium-term applications, one to three years indoors, depending on foot traffic. Use with JT5828HTO for interior carpet graphics with a durability of up to 2 months.

**Permacolor PermaFlex PF6400**, a 3.75-mil extremely economical textured polyolefin for very short term, indoor only, application of up to 30 days with light foot traffic.

**Permacolor RAYzor® LF3640G**, a 1.5-mil cast high gloss vinyl film with up to 1 year indoor durability when used in a floor graphic application.

**3) Installation:** After you have created your image and laminated with the appropriate overlaminating film:

a) Mactac floor graphics are developed for use on standard tile, vinyl, linoleum, terrazzo and ceramic tile floors typically found in most commercial settings. They can also be applied to smooth, sealed concrete, hardwood floors and industrial, smooth nap, carpeting.

b) A clean, warm floor is critical to success.

- i. Tile, vinyl, linoleum, terrazzo and ceramic floors must be cleaned first with a commercial cleaner and then washed with isopropyl alcohol to remove any grease, wax or cleaner solution residues.
- ii. Hardwood floors must be lightly cleaned with a commercial cleaner designed not to harm hardwood finishes.
- iii. Carpeting simply needs to be vacuumed well prior to application.
- iv. Concrete or asphalt must be swept clean of loose stones and debris. Do not apply StreetRAP to a wet surface.
- v. Insure your application temperature is greater than the minimum application temperature as specified in the individual media Performance Guide.

c) To overlap seams or to not overlap seams?

- i. If using PF6400 with a removable print media adhesive, butt cut your graphic seams, do not overlap.
- ii. An interior floor graphic designed for short term applications, up to 6 months, overlapping the seams is not be required.
- iii. Longer term indoor may be overlapped by 2”.
- iv. All out door floor graphics, butt cut your seams. We do not want to create a tripping hazard.
- v. Do not overlap more than one layer. Butt seam in multi-panel corners.

d) Pre-position the graphic on the floor to ensure proper placement and apply your graphic to the floor, using these steps:

- i. Remove a few inches of the liner from one edge and, when carefully positioned, apply onto the floor.
- ii. Using a squeegee, work from the center of the graphic out with firm, even pressure. Remove the remaining liner a few inches at a time using the squeegee to apply the remainder of the graphic to the floor. Use short, overlapping

strokes, from the center out. Avoid trapping air bubbles between the graphic and the floor. Repositioning is unlikely, so be sure to place the graphic correctly to start.

- iii. Finally, with firm pressure, re-squeegee all edges to ensure good contact with the floor.
- iv. When installing StreetRAP outdoors we recommend you heat the edges and seams, which seal the edges to the concrete minimizing moisture exposure.
- v. Inspect your application. If you did trap some air bubbles, use an air release tool, or a pin to pop the bubble and then re-squeegee the area down flat.

#### **Floor Graphic Maintenance:**

After installation, allow the floor graphic to set for eight to 12 hours before waxing, scrubbing or polishing the floor. We strongly recommend the floor graphic be waxed, especially if the graphic has overlapping seams, or if a mechanical buffer or industrial strength floor cleaner is used for cleaning. Waxing seals the edges of inkjet prints and actually protects the graphic from industrial cleaning chemicals and power floor scrubbers.

Mactac floor graphics are not designed to be driven over with motorized vehicles like cars, trucks, tow motors, or other heavy machinery.

Removal of Mactac floor graphics may pull the top layer of wax or varnish even when a removable adhesive is used. It is up to the graphic provider to test the substrate for suitability.

Outdoor floor graphics using StreetRAP an PF6600 must be maintained by cleaning with a brush and a soap and water cleaner to maintain a “High Traction” rating and a safe walking surface. If this cannot be done the graphic must be removed when dirt and grim accumulate.

Check out the Mactac video for Floor graphic installations for additional information at [www.mactac.com](http://www.mactac.com).

**IMPORTANT NOTICE:** The information given and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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