

Conversion, Application and Maintenance of the Avery Dennison Floor Marking System

Instructional Bulletin #6.30 (Revision 16)

Dated: 12/31/14

1.0 Scope

Due to the unique nature of the Floor Marking System, particular attention needs to be paid to the application surface, how the finished graphic is applied to the floor, and maintenance of the floor graphic.

NOTE: Failure to follow the guidelines set forth by this Instructional Bulletin may void parts or all of the Avery Dennison Floor Marking Warranty. **Floor Graphics have 6 months durability with recommended Overlaminates.**

2.0 Recommended Films

The following films are recommended and approved for Floor Marking applications:

2.1 Solvent Inkjet Applications

- Use MPI 2122, 2921, 2902, 2981, 2922, or 2121 Transit Vinyl with removable adhesive for general purpose applications
- Use MPI 1005, 2120, 2920, 2923, 2900, 2903, or 3900, 3920 with permanent adhesive for applications requiring a more aggressive adhesive (**i.e. low pile carpeting, ceramic tile...**)

2.1.1 Recommended Ink

- Reference Instructional Bulletin #5.80.

2.2 Ink Jet Applications

- Use IPM 2121 with removable adhesive for general purpose applications
- Use IPM 2120 or 3020 with permanent adhesive for applications requiring a more aggressive adhesive (i.e. low pile carpeting, ceramic tile...)

2.2.1 Recommended Ink / Printer

- See Instructional Bulletin #5.20, Section 1.5

2.3 Recommended Overlamine

- DOL 1060 Gloss cast vinyl film
- DOL 1080 Matte cast vinyl film
- DOL 2070 Luster calendered vinyl film
- DOL 2060 Gloss calendered vinyl film
- DOL 2080 Matte calendered vinyl film
- DOL 3070 Luster calendered vinyl film
- DOL 3060 Gloss calendered vinyl film
- DOL 3080 Matte calendered vinyl film



FLOOR COATING AND FINISHING MATERIAL
AS TO SLIP RESISTANCE ONLY
UL Reference # 16GH

Section 6 – Special Product Information Instructional Bulletin

Page 1 of 5



Graphics
Solutions

www.graphics.averydennison.com
Customer Service: 800-282-8379

3.0 Processing Procedures

3.1 Printing

The Avery Dennison™ Floor Marking system is compatible with most solvent, UV, and water based inks as well as many screen inks system. For approved printer/ink or screen ink systems, please refer to the following bulletins:

- Instructional Bulletin #3.00 – “Ink Recommendations for Cast, Reflective, Calendered and Specialty Products”
- Instructional Bulletin #5.20 – “Processing Tips for Avery Dennison Ink Jet Receptive Film and Paper Products”
- Instructional Bulletin #5.80 – “Multi Purpose Ink Jet - OEM Qualification Matrix, Durability Reference, & Troubleshooting Guide”

3.2 Laminating Conditions

- After the desired graphic image is printed on one of the approved Avery Dennison™ Floor Marking Base materials, it is necessary to overlamine the image with one of the laminates listed above in Section 2.3.
- Do not use calendered laminates on cast films.
- For aqueous ink jet images reference Instructional Bulletin #5.20, Section 2.1 for overlamination instructions (the overlamine on ink jet prints must overlap the image by at least ½”). For solvent inkjet or screen printed images reference Instructional Bulletin #5.50 Section 4.0 for overlaminating instructions. The use of varnishes or clear coats is not recommended and should not be used in lieu of the specially designed overlamine as varnishes do not have sufficient wear resistance and quickly lose any anti-slip properties they may possess.

3.3.1 Sign Cutting

- The Avery Dennison™ Floor Marking system can be cut on a flatbed plotter, using a sharp knife at a 45° angle. It is important to note that the caliper of the laminate construction will average 11-15 mils (280-380 µm) and a sharp blade will be critical. The thickness of the construction also inhibits designs that require cutting sharp angles and fine details. The waste should be stripped away as soon as possible after cutting.

4.0 Application of Floor Graphic

4.1 Placement of the Graphic

- For safety, and to maintain the integrity of the graphic, it is important to place the graphic in a moderate traffic area, away from main doorways.
- As with any floor surface, the Floor Marking graphic will become slippery when wet. As a result, it is better to keep the graphic away from areas where it can become wet from rain or snow. If applied in a warehouse setting, forklifts and tow motors can compromise the integrity of the graphic. The Avery Dennison Floor Marking system is suitable for use in warehouses provided the graphic is not applied to high traffic areas of heavy equipment.
- The floor surface to which the graphic is applied should be well secured, level, and free from cracks, chips, and missing and/or loose tiles or grout. The floor surface should also be free of silicone, as the presence of silicone will inhibit anchorage of the graphic to the floor surface.

Section 6 – Special Product Information Instructional Bulletin

4.2 Preparation of the Floor Surface

NOTE: For additional substrate preparation, please see Instructional Bulletin #1.10.

- Once the location of the graphic has been determined, it is necessary to prepare the surface for applying the graphic. Proper preparation of the floor surface is critical to the durability of the product. The application surface needs to be clean, smooth, and dry.
- Remove dirt and grime with a commercial detergent solution and water. Make sure that the surface is thoroughly cleaned and that no residue remains. It is important to clean not only the area to which the graphic will be applied, but also 8-10 inches larger (20 - 25 cm) than the Avery Dennison Floor Markings Graphic on all edges. NOTE: Detergents that contain enzymes and soaps should not be used.
- Wipe the floor dry with a lint-free paper towel. NOTE: Do not allow cleaning solution to air dry.
- If any grease or oil remains, saturate a lint-free paper towel with isopropyl alcohol (IPA) and thoroughly wipe the application area. Immediately following, use a dry lint-free paper towel to dry the IPA. NOTE: It is important that the alcohol be wiped dry so as not to leave a residue.
- Carpeted surfaces should be cleaned using a vacuum to ensure all loose dirt is removed.
- Prior to installation of the Avery Dennison Floor Marking System, read and follow all manufacturers' instructions relevant to the chemical preparation of the floor surface. The labels and Material Safety Data Sheets (MSDS) should be read before using any cleaning solution. Be sure to follow all manufacturers' guidelines when using floor-cleaning equipment.

4.3 Application of the Avery Dennison Floor Markings Graphic

NOTE: For additional application instructions please refer to Instructional Bulletin #4.00.

- Locate the exact position on the floor where the graphic will be located. Make sure that edges of the graphic are not along a tile edge, grout, or floor joint. See Figures 1 and 2.

Figure 1.

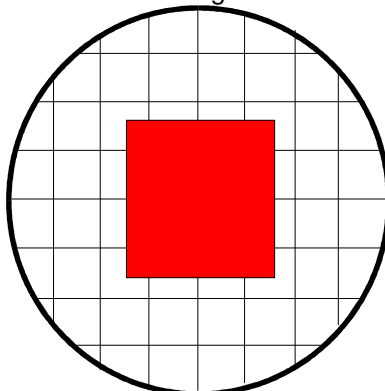
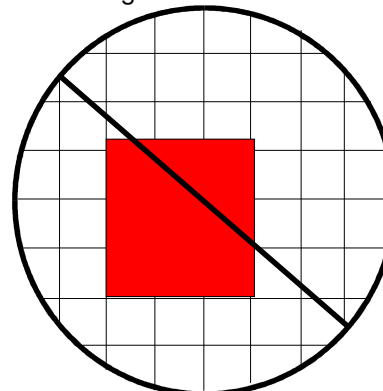


Figure 2.



- Once the location of the graphic is aligned, turn the graphic face down and remove the liner from the graphic. Partial removal of the liner or back-slits will facilitate positioning and application. Position the graphic on the floor; DO NOT smooth the graphic out with your hands as this will result in air entrapment.
- Using a hard plastic squeegee, make one firm stroke down the middle of the graphic. From the middle line, use firm strokes from the middle line to the edge. The strokes should be deliberate and overlapping, always working towards the outer edge of the graphic to avoid air entrapment.
- If the graphic is large, it may be necessary to carefully lift one of the ends of the graphic while squeegeeing from the center line to the edges. Repeat this procedure on the other end.

NOTE: Make sure that adhesive contact is minimized; if necessary contact with the adhesive should be made only with clean hands or gloves.

Section 6 – Special Product Information Instructional Bulletin

- After the graphic is applied, firmly go over the edges and corners again with the squeegee.
NOTE: Rounded corners on the graphic will help prevent pre-mature lifting of the graphic due to tampering and scuffing. Should square corners start to lift, they can be removed to prevent further damage to the image.
- After applying the graphic, it is recommended that the image not be walked on for at least 8 hours. This time allows the adhesive to anchor to the floor, minimizing pre-mature lifting of the corners.
- If applied to a waxed or treated surface, it is recommended that the surface of the floor graphic also be treated no sooner than 24-hours after application. In the case of commercial wood flooring that is either polyurethane coated or acrylic impregnated, it is not necessary to treat the floor graphic. This treatment recommendation is primarily for vinyl composition tile or vinyl inlay tile that is treated with “no-wax” floor polish.

5.0 Maintenance of Floor Graphics

- The Avery Dennison Floor Markings System has been designed to withstand daily cleaning with mild soapy water. Commercial buffers can also be used, but it is recommended that 4-5 coats of the floor polish be manually applied to the graphic the first time before using a buffer. It is also recommended that the graphic not be cleaned in any capacity within the first 24 hours. After the initial treatment of the graphic, treat the graphic as if it were part of the floor.
- For the best performance, it is recommended that water not dwell around the image and that the image not be exposed to oils and solvents for extended periods of time.
- Scuffmarks on the graphic can be removed using soap and water, citrus cleaning, and, as a last resort, a scratch-free cleaning pad.

6.0 Removal of the Graphic

NOTE: For additional removal instructions, please refer to Instructional Bulletin #4.10.

- When removing the graphic, start at one of the corners and gently pull the graphic toward you at a 90° angle. It may be necessary to use a putty knife to start the removal process. The graphic should remove cleanly. In the event that there is some adhesive residue on the edge of the graphic, the adhesive can be removed by gently scraping with the putty knife or using a citrus cleaner. Dirty contour edges may also be evident after removal of the graphic; however, normal cleaning of the floor will remove these.
- Depending on where the graphic was placed, the area under graphic may appear darker or discolored compared to the surrounding area. The Avery Dennison Floor Markings System offers some UV protection to the floor underneath, as a result, the surrounding floor may fade due to light sources, but the floor under the graphic will be protected.
- After the 6-month time frame, it may appear that there is no damage to the graphic and it does not need to be removed. NOTE: If the graphic is removed after the specified warranted time period, Avery Dennison will not be liable for any damage to the floor or any personal injuries incurred.

7.0 Professional Application Services

The above information provides basic information on how to apply pressure-sensitive graphics. The instructions are designed to help ensure success across a broad range of applications. Depending on the size and complexity of applications, a certain amount of expertise is needed.

Professional applicators can be hired to ensure proper application of finished graphics. When mounting graphics in remote geographic areas, professional applicators can offer the added benefit of local service. Consider hiring a professional whenever the application requires:

- multiple panels to be registered

Section 6 – Special Product Information Instructional Bulletin

- differing floor types
- remote geographic locations

Contact the Professional Decal Application Association for information on member applicators and services by visiting www.pdaa.com.

REFER TO AVERY DENNISON'S FLOOR MARKING SYSTEM POLICY AND WARRANTY STATEMENT FOR MEDIA PRODUCTS FOR A COMPLETE DESCRIPTION OF THE WARRANTY COVERAGE BY AVERY DENNISON.

Avery Dennison™ is a registered trademark of Avery Dennison Corp.

Revisions have been italicized.

Section 6 – Special Product Information Instructional Bulletin

Page 5 of 5



Graphics
Solutions

www.graphics.averydennison.com
Customer Service: 800-282-8379