

Recommendations for conversion, application and use of Avery Dennison® Floor Marking™

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Introduction

Avery Dennison Floor Marking consists of a self-adhesive printable base film and a textured, slip resistant self adhesive laminate. The base film can be printed on a variety of (super-)wide format inkjet printers using solvent, eco-/mild solvent, latex or UV-curable ink. After printing, the base film is overlaminated with a transparent overlaminate (Avery DOL 5900 or DOL 6000).

The Avery Dennison products mentioned below;

- are suitable and can be used safely on floors mentioned in this document,
- will stick on recommended floors,
- are suitable for indoor applications
- can be removed easily after use, within their functional life (see below)

Avery Dennison is not liable for any damage resulting from the use and application of Avery Dennison Floor Marking.

Products

Avery Dennison DOL 6000: 210 micron transparent, matt textured vinyl.

Recommended in combination with print film:

Avery Dennison MPI 2001: 80 micron gloss white polymeric calendered film with removable adhesive.

Avery Dennison MPI 2002: 80 micron gloss white polymeric calendered film with grey removable adhesive.

Avery Dennison DOL 5900: 100 micron transparent, matt textured vinyl.

Recommended in combination with print film:

Avery Dennison MPI 3001: 95 micron gloss white monomeric calendered film with removable adhesive.

Avery Dennison MPI 3001 HOP: 80 micron gloss white monomeric calendered film with removable adhesive.

Avery Dennison MPI 3002: 80 micron gloss white monomeric calendered film with grey removable adhesive.

The choice of one of the Avery Floor Marking products (laminate in combination with the printable base film) depends on the requirements for actual use.

Use

Avery Dennison Floor Marking has been developed for full colour graphics on a variety of indoor floor surfaces, such as in shopping malls, train and metro stations, supermarkets etc.

Durability

The functional service life of Avery Dennison Floor Marking is:

- up to 9 months: Avery Dennison DOL 6000 (with MPI 2001 or MPI 2002)
- up to 6 months: Avery Dennison DOL 5900 (with MPI 3001, MPI 3001 HOP or MPI 3002)

Above mentioned data are based upon experience, do not present a warranty and are applicable when manufactured under proper processing and application, as mentioned further in this bulletin. The functional life will be influenced by maintenance of the decal and exposure to e.g. (sun)light, temperature and type/amount of (foot)traffic. Avery Dennison Floor Marking is likely to be damaged by vehicles such as forklifts or trolleys. Damage caused by vehicles is excluded from any guarantee.

TECHNICAL BULLETIN 5.7

Conversion

It is recommended to round off the corners of Floor Marking decals by a **radius of at least 5 mm**: sharp corners make graphics more vulnerable to damage or delamination.

Allow the printed Floor Marking to dry for the required amount of time (recommendations depending your ink type) prior to overlamination.

Avery Dennison DOL 6000 and DOL 5900 can be laminated onto the printed film with a laminator at 25 - 30°C. Laminating can be done with moderate pressure (50-100 psi) and speed (< 2.5 m/min.) and low web tension. Laminating by hand or roller is not recommended.

Floor Markings can be cut on flatbed plotters, using a sharp, 45° angled knife. We recommend to strip the waste quickly after cutting. Designs for cutting that include sharp angled or fine details should be avoided. To avoid delamination Avery Dennison Floor Marking should be laying flat for at least 1 hour prior to further processing. For transportation it is recommended to prepare rolls with diameter of 6 cm or more: the DOL film shall be wound outside.

Application

Avery Floor Marking can be used on most floors. It is strongly recommended to always check floors prior to application.

Application on the following floors is not recommended and are excluded from any guarantee or warranty;

- Waxy, rough or porous ceramic tiles or wooden floors
- Textile mats and carpets
- Rubber matting
- Soft PVC matting
- Marble - (slight dis-)colouration of the marble might occur as a result of its porous composition.
- Very irregular floor surfaces

Application temperature: +10°C to +30 °C

Floor cleaning:

- All floors have to be cleaned and degreased prior to application of Avery Dennison Floor Marking. First clean the floor in a conventional way as prescribed by the floor detergent manufacturer. Do not use chemically aggressive detergents. Dry the floor with a lint free cloth.
- Then degrease the floor area that has to be covered, using degreasing agents (Avery Surface Cleaner or IPA) and again a lint free cloth. Check again prior to application that there are no dust or dirt particles on the area to be covered.

Application Procedure:

Determine the exact position where the graphic will be applied. Make sure that the edges of decals **never** start at a tile edge or joint or on a parquet floor joint. Put the laminated graphic upside down and remove the liner (partial removal or the presence of liner backslits will facilitate positioning and application).

The standard procedures for decal application can be followed.

- Peel the backing paper away from the film + overlamine construction and not the film from the backing paper.
- Apply the decal with a hard plastic squeegee with firm, overlapping strokes. After completion of the application, check and re-squeegee the edges of the decal.
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- **When the final graphic is made out of more than one sheet of Avery Dennison Floor Marking, it is recommended to apply these side by side (no overlap) without a gap.**
- Allow at least:
 - 30 minutes for the adhesion to build up sufficiently prior to use the decal as a walkway: essential here is the thorough re-squeegeeing of the decal edges.
 - 4 to 6 hours for the adhesive to “settle down” before the decal can be exposed to cleaning, polishing etc.

TECHNICAL BULLETIN 5.7

Removal after use

Avery Dennison Floor Markings can easily be removed, by starting the removal at a corner and then continue the removal at 90° angle. Dirty contour edges on the floor may appear after decal removal: these can be removed through the normal cleaning procedures for the floor to which the decal was applied.

If new decals have to be applied, the above procedure has to be repeated from the very beginning.

In some cases colour differences between the floor covered by Avery Floor Marking and the surrounding area could occur as result of further discoloration of the surrounding floor area.

Note

Avery Dennison warranties are only applicable when Avery Dennison Floor Markings have been used and processed and applied according to above instructions.

All statements, technical information, technical data and recommendations concerning the goods sold or samples provided by Avery Dennison are believed to be reliable, but do not constitute a guarantee or warranty. All goods are sold and samples of all products provided with the understanding that the purchaser has independently determined, prior to use, that the goods are suitable for the purpose the purchaser intends to use the goods for.

Composition of Avery Floor Marking combinations Films/DOL and the content of all Avery Technical Bulletins are subject to change without prior notice.