



## TECHNICAL BULLETIN 5.3

# Recommended combinations and durability of Avery® DOL™ Series and Avery® MPI™ Series

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### The main reasons for using overlaminates are:

- Extend durability. Protection against abrasion, water/moisture and UV radiation.
- Colour enhancement ( brighten up the printed colours )
- Realising the desired gloss level (gloss, matt or lustre )
- Product related like protection ( Avery Floormarking overlaminates )

### Digital Overlaminates:

- An overlaminate can be used on flat or 2D curved substrates. For corrugated or 3D curved substrates use an Avery DOL 1400 series overlaminate or a recommended varnish.
- Materials need to be fully dried, before an overlaminate or varnish is applied. In general a drying time of 24 hours will be sufficient. In case a lot of ink is deposited, materials may need up to 48 hours in order to be sufficiently dry. When drying, material should **not** be tightly wound on a core, as the solvents are then unable to evaporate. The materials should be left drying loosely wound on a core, or stacked in racks as sheets.
- All mentioned DOL products are Pressure Sensitive laminates.
- The expected **outdoor** lifetime of overlaminated images is mentioned in table underneath based upon vertical exposure and Central European conditions.
- The actual durability of the image will also depend on the quality of inks/toners and the specific digital printing process.
- We recommend checking if the required appearance can indeed be obtained after lamination.
- Purchasers should independently determine, prior to use, the suitability of the material to their specific use.
- The colors of an overlaminated print can be slightly different when compared to the unlaminated original. It is possible to minimize this effect by creating a dedicated ICC profile.
- For detailed information on product properties, please refer to the datasheets.

### Varnishes

- The combinations of media and varnishes specifically apply when the final decal is to be applied over corrugated surfaces, or for special applications like the MPI Flexible Curtain Films and Saturn Banners.
- All varnishes mentioned should be applied using a screen print press or appropriate liquid laminating machine, and according to the varnish manufacturers guidelines.
- Manual application of varnishes is not recommended when the final decal is to be applied over corrugated surfaces.
- Purchasers should independently determine, prior to use, the suitability of this material to their specific use. Compatibility of varnishes and inks should be checked.

Most of the information provided in this document can also be found on our website, [www.academy.averygraphics.com](http://www.academy.averygraphics.com). This website also contains instructional How-to videos and additional theory modules.



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### Avery MPI Products \*1

<b>Gloss</b>	<b>DOL 1000</b>	<b>DOL 1800</b>	<b>DOL 2000</b>	<b>DOL 2800</b>	<b>DOL 3000</b>	<b>DOL 4300</b>	<b>DOL 4400*1</b>
<b>Matt</b>	<b>DOL 1100</b>		<b>DOL 2100</b>	<b>DOL 2900</b>	<b>DOL 3100</b>		
<b>Lustre</b>			<b>DOL 2200</b>		<b>DOL 3200</b>		
Avery MPI 1004 Easy Apply*2	< 5 years	< 4 years				< 5 years	< 5 years
Avery MPI 1005 SC	< 5 years	< 4 years				< 5 years	< 5 years
Avery MPI 1005 SC Easy Apply RS	< 5 years	< 4 years				< 5 years	< 5 years
Avery MPI 1040	< 5 years	< 4 years				< 5 years	< 5 years
Avery MPI 1900	< 4 years	< 4 years				< 5 years	< 5 years
Avery MPI 2000/2001/2002	< 4 years	< 4 years	< 4 years	< 3 years		< 3 years	< 3 years
Avery MPI 2004 Easy Apply	< 4 years	< 4 years	< 4 years	< 3 years		< 3 years	< 3 years
Avery MPI 2005 Easy Apply RS	< 4 years	< 4 years	< 4 years	< 3 years		< 3 years	< 3 years
Avery MPI 2006 AP	< 4 years	< 4 years	< 4 years	< 3 years		< 3 years	< 3 years
Avery MPI 2020 / 2021	< 4 years	< 4 years	< 4 years	< 3 years			
Avery MPI 2040 / 2041	< 4 years	< 4 years	< 4 years	< 3 years		< 3 years	< 3 years
Avery MPI 2150	< 4 years	< 4 years	< 4 years	< 3 years		< 3 years	< 3 years
Avery MPI 2800 / 2801 / 2802 / 2803	< 3 years	< 3 years	< 3 years	< 2 years		< 2 years	< 2 years
Avery MPI 2900 / 2901 Easy Print	< 3 years	< 3 years	< 3 years	< 2 years	< 2 years	< 2 years	< 2 years
Avery MPI 3000 / 3001	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years
Avery MPI 3021	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years
Avery MPI 3040 / 3041	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years
Avery MPI 3151	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years
Avery MPI 3400 / 3401 / 3420 / 3421	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years
Avery MPI 3500 / 3501	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years
Avery MPI 3601 Quick Mount	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years
Avery MPI 8112	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years	< 2 years

\*1: DOL 4400 UV is recommended to be used for MPI products printed using UV curing inks. Actual durability depends on inks used.

\*2: Product not available anymore.





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### Avery MPI Perforated Window Films <sup>\*2, 3</sup>

Gloss	DOL 4000	DOL 4100
Avery MPI 7101/7201	3 years	3 years
Avery MPI 7301	2 years	2 years
Avery MPI 7401	1 year	1 year

Gloss	DOL 4000	DOL 4100
Avery MPI 6551/6552 <sup>*4</sup>	< 2 years	< 2 years
Avery MPI 6561/6562 <sup>*4</sup>	< 2 years	< 2 years
Avery MPI 6120 <sup>*4</sup>	< 6 months	< 6 months
Avery MPI 6130 <sup>*4</sup>	< 6 months	< 6 months

\*2: For Perforated Window Film, **only** the use of Avery DOL 4000 or DOL 4100 is recommended. Avery DOL 4000 can be used for either flat or slightly curved windows. Avery DOL 4100 is only recommended for 100% flat windows.

\*3: In order to avoid delamination of laminated graphics the materials should be wound on a large diameter core (min. 6 inch) with laminate facing outside.

\*4: Products are not available anymore.

### Avery Floormarking Products <sup>\*5</sup>

Textured	DOL 5900	DOL 6000	DOL 6100
MPI 2001	2 months	3 months	6 months
MPI 2002	2 months	3 months	6 months
MPI 8112	2 months	3 months	6 months
Avery Floor Marking 60	2 months		
Avery Floor Marking 90		3 months	
Avery Floor Marking 180			6 months

\*5 Durability Floormarking Products is **indoor**.





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### Avery Street Graphics <sup>\*6</sup>

	No laminate required	
	pedestrian traffic	vehicle traffic
Avery MPI 6121 Street Graphics	< 6 months	< 3 months

\*6: Regarding the application, usage and removal of Avery 6121 Street Graphics, it is important to follow recommendations as mentioned in Technical Bulletin 5.10 "Conversion, application and removal of Street Graphics".

### Avery MPI Cast Products, Varnishes and Overlaminates (Flat, 2D and 3D surfaces)

	Sericol Polyplast PY 433	Marabu SRL	Aqua Seal	DOL 1030 3D-Laminate
Type of varnish/laminate	Solvent Based	Solvent Based	Water based	Cast film
Avery MPI 1004 Easy Apply <sup>*8</sup>	< 5 years	< 5 years	< 5 years <sup>*7</sup>	< 4 years
Avery MPI 1005 SC	< 5 years	< 5 years	< 5 years <sup>*7</sup>	< 4 years
Avery MPI 1005 Easy Apply RS	< 5 years	< 5 years	< 5 years <sup>*7</sup>	< 4 years
Avery MPI 1040	< 5 years	< 5 years	< 5 years <sup>*7</sup>	
Avery MPI 1900 / 1900 Easy Apply / 1906 AP	< 4 years	< 4 years	< 4 years <sup>*7</sup>	< 3 years
Avery MPI Flexible Curtain Film <sup>*9</sup>	Not rec.	Not rec.	< 3 years	

\*7: Only for materials printed on VUTEK machines using original inks. Please refer to specific Vutek / Avery / Seal Graphics Warranty.

\*8: Product not available anymore.

\*9: Product is currently not available.

**NOTE: Please check recommendations on page 1 prior to use!**

