

Technical Bulletin 5.1

Application of Mactac JT 8300 Dot Floors

This Technical Bulletin provides detailed information on how to apply Mactac JT 8300 Dot Floors. For specific information on other products' properties, please consult the corresponding technical datasheet.

JT 8300 Dot Floors is a product specifically developed for short-term promotional indoor applications on smooth flat surfaces. Its main characteristic is the advanced dotted adhesive technology, which makes both application and removal easy, including for non-professional staff, using only basic tools. Thanks to its rough structured surface, it provides anti-slip properties, offering slip resistance to meet the European Standard DIN EN 13036-4 (PTV 36+ rating).

Note that JT 8300 Dot Floors must be applied with care and according to instructions in order to ensure that the product will perform as intended and designed.

REQUIRED TOOLS

To ensure proper application of the material, you will need the following tools:

- Mactac Fluids to clean the surfaces and remove adhesive residues prior to application.
- Soft plastic squeegee with velvet strip to avoid damaging the material (optional).
- Lint-free cloth for cleaning.

SURFACE PREPARATION

Even if they appear clean, all surfaces should be cleaned prior to application, following the instructions below:

- Clean the surface with a brush or a stiff bristle broom to remove dust, sand and gravel.
- Wash with soapy water, then rinse with clean water (do not leave any traces of soap on the surface).
- Clean away grease and any other residues with Mactac Cleaner.
- Dry the surface using a lint-free cloth, or with a clean paper towel that does not leave any small pieces, before the Mactac Cleaner has had a chance to evaporate.

Before starting application, ensure that all surfaces have been cleaned correctly and are completely dry. Surfaces must be in reasonably good condition.

Painted surfaces must be completely dry, and cured according to the instructions of the paint manufacturer, in order to ensure best results and avoid improper adhesion of the material.

APPLICATION METHOD

JT 8300 Dot Floors must be applied on smooth, flat indoor surfaces. The product is designed to be applied using the dry application method technique only. Please note that if applied to slightly textured floors, inks on any parts of the printed film that are more exposed to friction will fade away faster.

To ensure proper application of the film, the steps below should be followed :

Small to medium applications:

- Place the media upside down on a flat surface and remove the liner along one edge for 2-3 cm.
- Fold the liner backwards, showing a 2-3 cm edge strip of exposed adhesive.
- Position the film that is still covered with the liner. Once it is in the right position, press the exposed adhesive onto the substrate.
- Start squeegeeing or applying by hand at approximately 10 cm from the top edge, working horizontally with overlapping strokes from the centre outwards, to the left and to the right of the film.
- Squeegee or press the film with your hand while removing the liner at a distance away of approximately 15-20 cm.

- The adhesive technology should ensure that there are no pleats or bubbles while applying. If there are any bubbles, apply some pressure with the squeegee or the hand to remove.
 - Continue until the film is completely applied.
 - Squeegee the last 10 cm of the top edge, working from the centre outwards, to the left and then to the right of the film.
- For smaller graphics, the application method can be performed by hand instead of using a squeegee. Always make sure that the dotted adhesive is in contact with the floor surface by applying pressure over the graphics and in particular at the edges and corners.

Large applications (hinge method):

- Place the media, with the liner, in the required position on a flat substrate.
- Fix the edges firmly with some tape.
- Using some tape, make a hinge perpendicular to the largest edge, allowing a maximum of 1m from the closest edge.
- Fold the short side of the media on top of the other side. Remove the liner as far as the hinge and then cut the liner off.
- Unfold the media back into position, and leave a space between the film and the substrate to avoid unintended adhesion.
- Start squeegeeing firmly from the hinge centre, working with overlapping strokes from the centre outwards to the edges. Work the strokes parallel to the hinge.
- Repeat the same actions for the other section of the film.
- Thanks to the dotted adhesive technology, there should be no pleats or bubbles while squeegeeing.

To ensure full adhesion of the film on the smooth, flat substrate, JT 8300 Dot Floors must be treated with care for at least 12 hours after application, so that adhesion can develop properly. Light passage should not cause issues during this 12-hour period, but heavy traffic, machine cleaning and or heavy traffic that creates friction must be avoided.

When the film is applied onto floor tiles, it is important to keep the edges approximately 10mm away from the tile joints to prevent edge lifting.

Never apply the product below the minimum application temperatures as specified in the technical datasheet.

MAINTENANCE

JT 8300 Dot Floors surface must always be kept clean and dry to maintain the film's anti-slip properties and to preserve printed graphics. The film can be cleaned with water and mild detergents, with little damage to the print and inks, however the use of industrial cleaning machines, cleaning chemicals or mechanical cleaners may degrade the inks and affect the overall performance of the film.

Please follow the steps below to ensure proper cleaning and drying of the printed film:

- Clean the surface with soapy water, then rinse with clean water (do not leave any traces of soap or water on the surface).
- Dry the surface using a lint-free cloth or a clean paper towel. All edges and corners must be dry to prevent edge lifting and water infiltration under the film.

REMOVAL

JT 8300 Dot Floors can be removed with ease, and does not require any specialist tools.

Please follow the steps below to ensure proper removal of the film:

- Peel off one edge or corner and pull the material firmly, keeping an angle of 60° to 90° between the substrate and the film.
- Any adhesive residues can be removed by using Mactac Remover and wiping with a lint-free towel.

ANTI-SLIP CERTIFICATION

Thanks to its rough structured surface, Mactac JT 8300 Dot Floors provides anti-slip properties, offering slip resistance to meet European Standard DIN EN 13036-4, following the Pendulum Test Value Method.

Mactac JT 8300 Dot Floors	Friction in dry conditions (PTV-value)		Test Method
	Longitudinal direction	Transverse direction	
Unprinted	PTV 94 (low slip potential)	PTV 88 (low slip potential)	EN13036-4
Printed: HP Latex 831c inks	PTV 83 (low slip potential)	PTV 74 (low slip potential)	EN13036-4
Printed: Roland EcoSolvent Max 2 inks	PTV 86 (low slip potential)	PTV 72 (low slip potential)	EN13036-4

GENERAL REMARKS

To ensure application suitability:

- Always test the proposed construction and cleaning method under actual application and end-use conditions before going into full production.
- When exposed to high frequency foot traffic, printed graphics may fade due to ink abrasion.
- The following factors can adversely affect the adhesion of the self-adhesive product:
 - Dust, dirt, grease, oxidation.
 - Application below the minimum application temperature.
 - Use outside of the service temperature range.

DISCLAIMER

All Mactac statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Mactac products are sold with the understanding that the purchaser has independently determined the suitability of such products for its purposes. All Mactac's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>

©2019 Avery Dennison Corporation. All rights reserved. Avery Dennison and all other Avery Dennison brands, this publication, its content, product names and codes are owned by Avery Dennison Corporation. All other brands and product names are trademarks of their respective owners. This publication must not be used, copied or reproduced in whole or in part for any purposes other than marketing by Avery Dennison.

Contact

Email: contact.mactac@mactac.eu
Website: www.mactacgraphics.eu

