

FLEXcon® WALLdeco™ Product Line Technical Guide and Application Instructions

Printability

- UV and solvent screen inks
- UV and solvent inkjet
- Latex inks
- UV and conventional offset inks with appropriate FLEXcon primer (topcoat)
- Water, solvent and UV flexo inks with appropriate FLEXcon topcoat
- Digital offset (HP Indigo) inks with appropriate FLEXcon topcoat

For any specific print inquiry, please contact your FLEXcon Technical Service representative.

UV Cured Inks

Suggest using flexible UV ink. Please review available flexible inks with your ink supplier.

1. Allow for post cure before die cutting or contour cutting. Certain UV inks will continue to (post) cure after the initial cure. The ink's formulation specific to bond, durability and chemical resistance will continue to build and develop after the initial cure. Please be aware that some darker and opaque colors are more difficult to cure.
2. Watch for over-cured ink, as it will be brittle and chip and crack along the die-cut edge. Please check for bulb wattage, line speed, and flexibility of your ink.
3. Suggest leaving an unprinted border for contour-cut decals.
4. Best packaging method is layflat sheets; however, size of graphic may dictate tubing. Suggest winding printed side out onto a 3"+ core to prevent tunneling.
5. Rolls should be stored at a minimum temperature of 50°F (10°C) and 50% relative humidity before installation.

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Solvent Inks

This product is printable on all solvent inkjet printers with the following cautions:

1. Suggest leaving an unprinted border for contour-cut decals.
2. Be sure all solvents are completely dried out of film before die cutting or contour cutting. Do not wrap/roll film until all solvents have been completely dried. Refer to solvent dryness test:
 - Place several printed sheets face to face under a 12" stack of media or under a weight of 2 pounds per square inch.
 - After 10 minutes, remove the sheets and check for blocking or surface impressions. If blocking or surface impressions are noted, either increase the temperature or decrease the line speed, as additional drying is needed. Retest.
 - Residual solvents left in the media will certainly cause application failure. The edges of the graphic will begin to curl off of the wall. The film will lose stability and become very elastic. The adhesive may also build in strength becoming more permanent than removable.
 - Wind print side out onto a minimum of a 3" core to prevent tunneling.
 - Rolls should be stored at a minimum temperature of 50°F (10°C) and 50% relative humidity before installation.

Latex Inks

- Print technology involves high heat 212°F+ (100°C+).
- Heat can distort film causing wrinkling.
- Some media may not be compatible - test for suitability.
- We offer wide web sample rolls of FLEXcon approved media for suitability testing.

Overlaminates

Overlaminating is recommended for long term permanent graphics. An overlaminate can be used to protect the print, change the aesthetics - ex: matte or lustre or embossed, etc. based on application requirements.

Overlaminating is not recommended on FLEXcon's WALLdeco™ short-term promotional wall graphic products.

Application Environment

Products are intended for interior use only. Please refer to product specific application sheet for additional information.

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Application Surface

Flat, smooth painted (non-vinyl) wallboards (products with high-tack removable adhesive).

Flat, smooth painted wallboards (products with low-tack adhesive).

Please note: A semi-gloss painted surface provides best adhesion. Flat paint or textured finish can be problematic along with any anti-graffiti coatings.

Wall Inspection, Repair & Testing

This information is intended as guidance only. We recommend that all surfaces be tested for compatibility and removability. Factors such as the smoothness and cleanliness of the surface, as well as print, process, installation method, and size of the decal may impact the adhesion and success of the application.

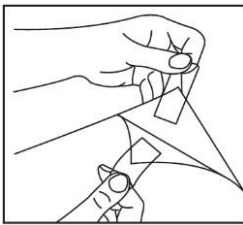
- This product is designed to adhere to clean, smooth painted wallboards.
- All wall surfaces should be inspected to determine if repairs are needed prior to application.
- Bubbles, cracks, or any other imperfections must be repaired before application. If repair requires the use of spackle, it should be primed over and painted, and allowed to cure.
- If the wall is freshly painted, please refer to the paint manufacturer's statement regarding dry time.
- If the wall surface needs cleaning only, clean with soapy water and dry with a lint-free towel.
- Apply a small swatch of the printed graphic to the prepared wall surface in an inconspicuous area and allow the swatch to dwell for 72 hours. Slowly remove the graphic at a 45-90 degree angle and inspect for possible damage to the wall. If any paint is removed, re-inspect the wall surface for cure of the paint to the wallboard.
- If the decal is lifting within 72 hours, suggest reprinting and confirm that all solvents have completely dried, if printing solvent inkjet. Suggest post-cure inspection if printing with UV inks.

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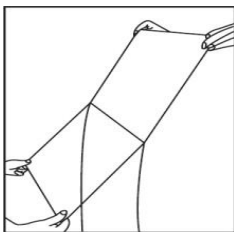
Installation

Please note: the below information provides basic information on installation. Professional installers can be hired to ensure proper application of finished graphics. Contact the Professional Decal Application Alliance for information on member installers and services by visiting <https://printerlink.printing.org/network/findaninstaller>.

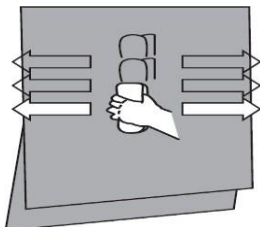
- Use of premask is not recommended.
- Printed graphic should be removed from its packaging, allowed to lay flat and acclimate to the room environment prior to installation.
- The minimum temperature is 50°F (10°C) with 50% relative humidity.
- Avoid applying to an area directly near a heater or source of condensation.
- Make sure your graphic is centered properly.
- Dry application. No wetting agent is recommended for application to wallboard or other wall coverings. Condensation left behind the graphic will cause the graphic to lift.
- Bend back approximately two inches of the paper liner from the top portion of the graphic.



- Be careful not to stretch the graphic, as films have memory and when stretched, will ultimately relax, causing lifting and failure.



- Using a felt-tipped squeegee, lightly squeegee the center top of the exposed adhesive area of the graphic, working the middle section of the graphic first. Use firm, even strokes as you work your way from the center to either side. Continue to slowly remove the paper liner, while squeegeeing horizontally with overlapping strokes, working from top to bottom and from center to sides. Be sure to squeegee the entire graphic surface to ensure adequate adhesion.
- Overlapping seams are recommended for full wall murals.



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Environmental Conditions/ Removability

- Environmental conditions such as heat, humidity, condensation, air conditioning, exposure to chemicals and abrasion etc. can impact the installation, application life, and removability of the graphic.
- Carefully pick at the top portion of the graphic getting the fingernail under the adhesive -- working your fingers under the adhesive, use a 45-90 degree angle and carefully, steadily, slowly remove the graphic from the top working your way down to the bottom.
- If original liner has been saved, you can reapply the graphic to the liner.

Flammability

For more information, call FLEXcon's Technical Service line at (508) 885-1519.

~ The typical performance data and recommendations for using FLEXcon products shall be used only as a guide. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose of its intended use. ~

06/08/2023