



X-Treme Air

Handling Recommendations

X-Treme Air is a printable, adhesive-backed 6 mil vinyl backed with high tack removable (HTR) adhesive and air egress liner for easy installation. Designed for wall applications and outdoor applications in extreme heat or cold and low surface energy (LSE) surfaces at any temperature, X-Treme Air be installed at temperatures between +5°F and 122°F.

Read through the recommendations in this guide carefully and follow for successful application.

- X-Treme Air is designed for use in indoor and outdoor applications in heat and cold on smooth and slightly curved surfaces including tile, metal, glass, concrete, as well low-surface energy surfaces in any temperature, such as HDPE (trash cans, portable toilets), and wood.
- Performance may vary based on surface, environment, and installation conditions. User is responsible for determining the suitability of the product, including adhesion and removal characteristics, when used in applications other than those listed specifically in this guide.
- Questions about applications should be directed to your Continental Grafix sales representative.
- This is an uncontrolled document. Please download the latest, most up to date version on the X-Treme Air product page found on CGXUSA.com.

PRINTING

Suitable Printing Methods

- Solvent
- Eco-Solvent
- Latex
- UV Curable
- Screen Print

Tip: Ensure the film reaches ambient temperature before printing to balance any temperature differences between storage and production areas.



LAMINATING

- If the project will be laminated, it is essential the inks are completely dry. **We recommend a drying time of 24 to 48 hours depending on the specific ink used.** Prints should lay in a flat position during that time for proper and thorough degassing to occur.
- For *best results*, use a **pressure-sensitive cast laminate like optically clear panoRama Cast Laminate** from Continental Grafix USA, Inc. Choosing a cast laminate improves conformability and reduces shrinkage over time.
- For *short term results*, use a **pressure-sensitive calendared laminate like optically clear panoRama Protect** from Continental Grafix USA, Inc.
- For best results, ensure proper laminator calibration. Common lamination issues, such as tunneling and edge-curling when installed often stem from poor calibration. **Use no tension to avoid stretch, use light pressure, and a slow lamination speed.** After lamination, wait **24 hours before application.** *The quality of the laminator, rollers, and calibration will have an impact on the result.*

PACKAGING & TRANSPORTATION

To avoid tunneling after printing/laminating and related problems during application we recommend the following:

- If possible, allow 24 hours after laminating to package and transport graphics.
- Always **wind finished graphics with printed side facing out.**
- Do not wind the roll too tightly. Always try to wind it with as much diameter as possible (at least 10" diameter).

CAUTION: Avoid prolonged exposure to cold temperatures prior to installation. DO NOT store X-Treme Air in a cold vehicle overnight or for long periods of time in freezing temperatures prior to installation. Material will become brittle and difficult to apply. Keep material warm (above +50°F/+10°C) until material is applied.



SURFACE PREPARATION

- For optimal adhesion, application surface must be clean and free of grease and dust.
 - *Windows:* Use only mild soap and water to clean surface. Two drops of dish soap like Dawn or Joy in one gallon of water makes a good cleaning solution. **Avoid solvent or ammonia-based cleaners.** In low temperatures, consider using warm water or lint-free cloth only. Prevent contact with solvent and ammonia-based cleansers. Rinse and dry glass after cleaning with a lint-free cloth.
 - *Other surfaces:* Remove loose dirt or particles from application surface. Heavily soiled surfaces may require additional washing, following the recommendations for windows above. Surface must be completely dry before graphic is applied.
- Alcohol is not a recommended cleaning agent, however if used, rinse thoroughly with water to remove any residue.

GRAPHIC APPLICATION

- Ensure a minimum application temperature of **+5°F (-15°C)** and a maximum of **+122°F (+50°C)**, applicable to both the environment and the surface.
- For best adhesion, store the film at the application temperature for a few hours prior.
- Unroll and lay graphics flat before installation to let them relax.
- DO NOT install on freshly painted surfaces. Paints must be fully cured prior to installation.
- Testing is recommended to ensure desired results can be achieved.

INSTALLATION

- X-Treme Air is backed with an air egress liner, creating channels in the adhesive, to allow for bubble free installation. **Dry application method** is recommended.
 - If applying to glass, to accommodate glass expansion and contraction, leave a **3-5 mm (1/8" - 1/4") gap between the graphic and the window edge**. Avoid applying the film to window seals or frames, as this may cause detachment and edge curl over time.
1. Lift the upper edge of the liner and fold under approximately 5" down one edge depending on the size of the graphic. Consider a chalk line, tape, or other method to ensure your graphic will be installed and positioned correctly.
 2. Carefully position X-Treme Air so that it is properly aligned, then lightly tack the top edge in place using light pressure.
 3. Using a soft plastic squeegee, apply the graphic from top to bottom, working from the center outward. Continue by peeling away more of the liner and applying light pressure to the film working from the center of the graphic out.
 4. Continue in this manner until the liner is completely removed and the graphic is in place.



5. Finish by squeegeeing the film with firmer pressure from the center and work outward in all directions to the edges carefully pushing out remaining air. Resqueegee the outer edges and seams to ensure sufficient contact with the surface.

CLEANING

- After installation, clean windows or surfaces gently with mild detergent and soft cloth.
- **Avoid high-pressure sprayers and mechanical car wash brushes**, as these can lift edges and compromise the graphic.



REMOVAL

Removal is simple on approved or tested surfaces but may require extra care if left long-term.

1. A minimum temperature of **50°F (10°C)** and **86°F (30°C)** is recommended for easy removal. In cold conditions, warm the adhesive with a hair dryer or heat gun to prevent tearing. Take care not to crack or damage the surface with the heat!
2. Use a hard squeegee or putty knife to lift a corner and slowly pull at an angle of **45° to 75°**. With continuous motion, pull **X-Treme Air** back on itself with consistent pressure. With careful handling, **X-Treme Air** can usually be removed in a single piece.
3. Peeling at angles greater than 90° increases the likelihood of adhesive residue remaining on the surface. If minor adhesive residue remains, clean with a mild detergent and remove residue with a rubber wiper.

*Information is based on our knowledge and experience. Not all aspects which should be considered for application will be explained. **Specialized and occupational knowledge and competence of a professional sign maker are presupposed.** Due to the diversity of influencing factors during application and use, we strongly recommend situational tests of our products by customers who wish to use the material for special applications. No legal binding warranty of certain qualities can be derived from our information.*

Thank you for choosing **X-Treme Air** from Continental Grafix USA, Inc. Please visit us at www.cgxusa.com or contact us directly at (704) 872-2216 with additional handling questions or for warranty information.

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