

Application Guide

Polar PET 170

For Floor Graphics



Slip-Rated Single Part
Floor Graphics Solution



Short Term
Durability



Tools
Required



Dry
Application



Moderate
Application

Read the following instructions prior to application. Polar PET 170 is designed for short-term, indoor non-slip floor graphics without the need for lamination. Drytac recommend the following guidelines are carefully read and followed to ensure a successful application. The end user/applicator is responsible for ensuring the film's suitability for the intended application. Always make time to test a printed sample on the intended surface prior to full production and installation.

Required Tools

- Stiff brush for cleaning
- Vacuum cleaner for surface preparation
- Soft edge squeegee for application
- Soft cloth for decal cleaning

Types of Surfaces

The type of surface will have an impact on the adhesive bond, it is critical to understand the nature of the surface in order to avoid graphic failure or removal issues. Heat is not necessary for application. Polar PET 170 is not suitable for rough or heavily textured surfaces.

Surfaces Recommended for Application:

- Floor tiles
- Laminate flooring
- Short pile carpets * (Please see page 3)
- Sealed wood
- Waxed vinyl
- Marble
- Ceramic tiles
- Treated/Sealed concrete

Surfaces Not Recommended for Application:

- Rough/Untreated concrete
- Asphalt/Tarmac
- Stone
- Long pile/cushion carpets

Surface Preparation

The surface to which the floor decals are applied must be clean and dry. Check the surface is in good condition and does not have defects such as cracks, chips or other damage.

Prepare the surface for decal application with the following guidelines:

- Loose contaminants such as dirt and dust will reduce adhesion. To avoid premature failure use a stiff brush to clean the surface.



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Surface Preparation Continued

- *Tip: If the surface is oily use a suitable degreaser or cleaner and allow the surface to dry for 48 hours or to the manufacturer's guidelines.*
- Test a small sample prior to installation to ensure ideal adhesion and graphic outcome. Let dwell for 2-3 days.

Printing & Layout Recommendation

- UV and Latex inks offer the greatest durability for floor applications.
- Due to the variance of (eco) solvent inks it is recommended scuff resistance is tested prior to installation.
- Graphics should have a sufficient non-printed border and all corners should be rounded.
- When doing multi panel graphics use an butt join.
- Strategically align the joins along areas where alignment is less critical, such as between lettering to make installation easier.
- Prior to application or cutting, prints must be sufficiently dried in order to prevent any negative effects on film or adhesion properties. In general, at least 24 hours UV & latex inks or 48 hours (eco) solvent of dry time should be sufficient, please refer to ink and machine manufacturer's guidelines.
- When drying, the material should not be tightly wound on a core. The material should dry while loosely wound on a core or hanging as sheets in racks so the solvents can evaporate. Properly dried material is a must in order to benefit from each film's specific properties.

Floor Graphic Application

- Using the hinge method, peel the release liner about 10cm/4in exposing the adhesive and fold back release liner.
- Line up the decal in the desired location.
- Beginning from the top edge working horizontally, use the squeegee with firm, overlapping strokes to apply the graphic.
- Gradually pull down the release liner while applying even pressure across the decal.
- Move from the centre outwards to the edges to avoid trapped air.
- Continue to remove the liner and apply the graphic in approximately 20cm/8in instalments.
- Apply pressure ensuring a good bond between the adhesive and the surface.
- Go over the whole graphic and check there are no pockets of trapped air.
- If bubbles appear, use a sharp blade to pin prick the media to release the trapped air and firmly using the squeegee, smooth over the graphic.
- Firmly squeegee over the edges a second time to ensure good adhesion.
- *Tip: Avoid installing the media over deep recesses, as this can be punctured or torn.*



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Cleaning Instructions

- Do not scrub or polish the graphic or its surrounding area for 24 hours after the graphic application.
- Clean with a soft cloth and water or mild detergent when the floor decal shows signs of dirt.
- Be sure to take care with exposed edges; chemicals and liquids can detrimentally affect adhesives if given the opportunity to ingress. Reduced adhesion could result in the decal lifting and cause a trip hazard.

Graphic Removal

Polar PET 170 is designed to remove cleanly and easily from various surfaces, the removability may vary depending on the substrate and how it was prepared. Due to the wide variety of surface types and finishes, Drytac does not warrant against damage caused by graphic removal.

- To begin removal, carefully pull the graphic away from the top edge at an approximately 120° angle. A knife maybe required to lift away the edge.
- Peel the graphic away slowly and continuously, maintaining the 120° angle, until it is removed.
- The substrate below the graphic may have changed in appearance. This could be due to improper cleaning prior to application, paint quality, exposure to heat and light, migratory additives, weathering or adhesive residue.
- Do not use chemicals to aid removal.
- *Tip: If any adhesive residue is left after removal, isopropyl alcohol or a stiff brush can be used to remove the remaining residue. Test a small area to make sure the isopropyl alcohol has no lasting effect on the surface.*
- *Tip: Adhesive residue on carpet can be removed by using a stiff brush.*

Decal Durability

- Interior Floors: Up to 6 months. Dependant upon foot-traffic and proper installation.
- Polar PET 170 holds multiple slip rating & certifications, please see drytac.com for more information.

This document provides information on how to apply floor decals. These instructions are designed to help ensure success across a broad range of applications. Depending on the size and complexity of the application, a specific level of expertise may be required. A more experienced applicator/installer may be needed for larger and more complicated graphics whereas a less experienced applicator/installer may be better suited for applying smaller poster-sized graphics.

*Important Notice - if installed to carpet, the carpet installation surface must be short pile or tightly woven, minimal texture with a limited cushion. The carpet should be clean and dry prior to application. Due to the huge variance of carpet surfaces, materials and types along with pre and post chemical treatments, a test sample is mandatory prior to production and installation. It is important that all printer and ink manufacturer guidelines are followed. The Drytac limited warranty only covers for material defect, no returns or consequential losses will be accepted.

For more information, performance and warranty guidelines please contact your local Drytac office.

Please Note: Please refer to the TDS for more technical information. The technical information, recommendations and other statements contained in this document are based upon testing and experience Drytac believes to be reliable, but the accuracy and or completeness is not guaranteed. Drytac recommends a small test be performed to determine suitability beforehand. This document does not constitute a warranty of any kind.

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