



TECHNICAL ASSISTANCE

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MACal® 8900Pro Application Guide

MACal 8900Pro is a unique intermediate film with up to 4 years outdoor life. The face is a 2.8-mil cadmium free vinyl available in a variety of **gloss and matte** colors. It is coated with a semi-permanent acrylic adhesive, which can be applied at temperatures down to 32°F and yet, is cleanly removable from common surfaces for up to **2 years**. The liner is an 83# white kraft offering stability and layflat. MACal 8900Pro is easy to cut and weed and has excellent dimensional stability. 8900Pro is great for wall graphics, vehicle markings, P.O.P and all sorts of signage on various surfaces and mounting boards.

APPLICATION:

- 1) Application of MACal 8900Pro is made easier if **Mactac** MACtransfer 220 pre-spacing transfer tape is used.
- 2) The transfer of the cut vinyl onto the application tape should always be performed by removing the liner **FROM** the pressure-sensitive material, **NOT** by trying to lift the application tape with the vinyl off the liner. To do this, lay the graphic face down on a flat surface then remove the liner.
- 3) Do **NOT** use the 'wet' method of application with MACal 8900Pro. This product has a removable adhesive with lower initial adhesion than a permanent adhesive. Use of the 'wet' application method with this product may result in poor adhesion and premature lifting or slipping of your graphic.
- 4) The application and subsequent removal of MACal 8900Pro may damage some substrates. These may include acrylic glass, polycarbonate, polystyrene, nitro-cellulose paints and plasticized PVC.
- 5) Please test first for suitability.
- 6) Do not wash the completed vinyl graphic for 48 hours after application.

APPLICATION TO INTERIOR WALLS:

Drywall is an extremely porous surface and sealing it up is difficult, yet critical for graphic applications.

- 1) Some drywall surfaces can cause poor adhesion. These include:
 - a. Highly textured surfaces
 - b. Matte and high gloss paints
 - c. Highly pigmented paints (dark colors)
 - d. Newly painted surfaces
 - e. High humidity areas or moisture behind the drywall.
 - f. New drywall.
- 2) New drywall (anything less than one year old is considered new) has to do a lot of moving as the new building settles. New drywall will shrink an extreme amount resulting in lifting graphics. This is because it has fairly high moisture content from the manufacturing process.

Surface preparation:

To give the best chance of success we recommend the following:

- 1) First clean the wall with a small amount of detergent and water. Allow 24 hours to dry and then; Test a small amount of the graphic material to check the bond. If good, proceed to application, if not proceed to step 2.
- 2) Use an alcohol-based primer (B.I.N. Zinsser is an example of one), because it dries very fast (typically within 24 hours) and has fairly high solids content for sealing porous surfaces. If not available an alternative is to use a watered down inexpensive latex paint, semi gloss or satin, never matte or high gloss. For these, allow a full week for the paint to cure.
- 3) A week after priming and painting the surface, wash down the walls (dust will form in a very short time) just prior to applying the graphics.

Application:

- 1) Never apply wet (no application fluids)! Always apply dry.
- 2) Start by folding back one edge of the release liner 1 - 2" from the top to expose the adhesive.
 - a. Position your graphic to exactly where you want it and lightly tack it to the wall in the exposed adhesive area.
 - b. Using a soft (felt) squeegee, or a hard one with a protective sleeve, squeegee the graphic down to the wall from the center out to the edges.
 - c. Remove additional liner and squeegee again, from the center out, and repeat until the entire graphic has been applied.
- 3) If an application tape has been used, allow sufficient time for the adhesive to build to an ultimate bond to the wall before removing any application tape. Typically 1- 2 hours is sufficient.
- 4) To remove the application tape, start at an upper corner and pull the tape back upon itself at a sharp, 180° angle and at a 45° angle to the graphic. Pull with a slow steady rate; do not jerk the tape off. Continue in this fashion until all the tape has been removed.
- 5) After the entire graphic has been applied and the application tape removed, go back and re-squeegee all the edges and seams down again.

USE and RESPONSIBILITIES:

- 1) The user is responsible for determining the product's suitability, including adhesion and if needed, removal characteristics when used in applications other than listed specifically in this Performance Guide.**
- 2) If there are any questions about applications, please contact your Mactac sales representative to discuss your requirements for recommendations.**
- 3) If this is a printed Performance Guide it is an uncontrolled document. Please check the Mactac website for the latest, most up-to-date version.**

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