

## Technical Bulletin FP-01

### Application of ABF-300™ ESD Control Film

#### Tools Required

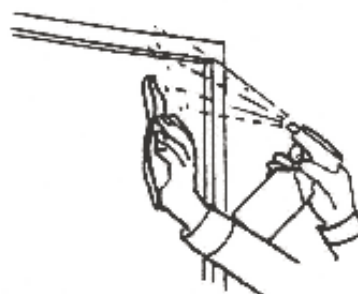
Plastic bottle with atomizing sprayer filled with soap solution (3 drops of Johnson and Johnson® Baby Shampoo to 1 pint of filtered, deionized water), lint-free wipers, tape measure, straight edge ruler, single edge razor blade cutter or utility knife, four to six inch rubber squeegee, and transparent tape.



#### Surface Preparation

For best results the application surface should be hard and smooth, e.g., windows, partitions, walls, or machine enclosures. Note that ABF-300 ESD Control Film is intended for interior surfaces only. Ideal application temperature is between 40°F and 80°F.

Turn off equipment that might blow dust onto the application surface. Thoroughly clean the surface to remove dirt and other contaminants. Use a scraper or razor blade to remove any loose or rough particles. Pay particular attention to edges and corners where there may be a dirt build-up. After cleaning, squeegee the surface dry collecting any residual liquid with a lint-free wiper.



#### Installation

##### Step 1 - Cutting the Film

Measure the area to be covered. Add 1/2 inch on all sides (this excess will be trimmed off after application). Lay the film on a flat, clean and dry surface. Using a straight edge and single edge razor blade, cut the film to the oversize dimensions. When cutting, retain one side with the factory edge.



##### Step 2 - Wetting the Application Surface

Using the sprayer, apply the soapy water solution generously to the application surface until beads of moisture appear on the surface. This solution will act as a lubricant and will not ultimately affect the clarity of the film. If the surface becomes dry before film application repeat the spraying operation.



##### Step 3 - Removing the Film Backing

Remove the clear protective liner from the film by attaching two pieces of transparent tape to the front and back surfaces of the film at a corner. Allow enough tape to lap over the edge of the film to retain a grip on each piece of tape. Pull the pieces of tape apart separating the liner from the film. The liner should be removed in one smooth, continuous motion. Wet the back side (adhesive side) of the film with the soap solution as the liner is removed (a second pair of hands may be helpful).



## Installation (continued)

### Step 4 - Placing the Film on the

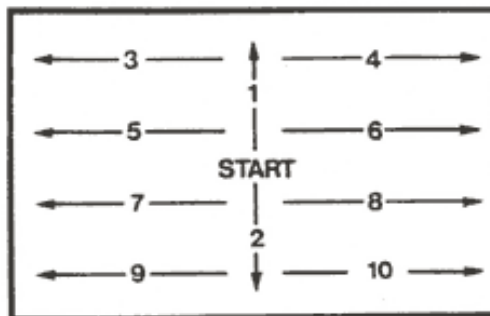
#### Application Surface

Place the wetted adhesive side on the wet application surface lining up the factory edge with a straight surface edge. Carefully position the film so that it overlaps the remaining sides. Be sure to handle the film carefully to avoid wrinkles and creases. Both water and air bubbles will be smoothed away during the squeegeeing process, but creases cannot be removed.



### Step 5 - Removing Water and Air Bubbles

Spray the entire surface of the film with the soapy water solution to act as a lubricant during the squeegee process. Squeegee the film surface starting in the middle working first toward the top and then toward the bottom. Using short strokes, next squeegee from the center alternately toward the left side, then toward the right side beginning at the top and working progressively toward the bottom of the application surface. Do not go all the way to either side or edge at this time. Apply enough pressure to remove all of the water and air bubbles. Do not try to squeegee the edges until they have been trimmed.



### Step 6 - Trimming to Final Dimension

Using a straight edge and single edge razor blade, trim as close as possible to the edge of the application surface. Rewet the entire film surface and resqueegee all the way out to the edges removing any moisture and air bubbles along the edges. Dry the surface of the film with a lint-free wiper.



### Application to Surfaces Wider than the

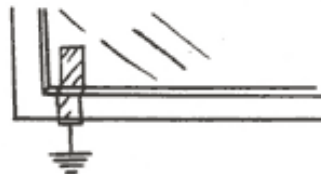
#### ABF-300 ESD Control Film

Two or more widths of film can be butted together prior to the squeegee process. If a perfect butt seam is required the film can be overlapped and double cut like wallpaper.



### Grounding the Film Surface

The entire surface of ABF-300 ESD Control Film is electroconductive. To ground, it is necessary only to contact ground at one point on each piece of film. Grounding can be achieved through a direct mechanical attachment or by attachment of a conductive tape that is connected to ground.



### Cleaning and Care of ABF-300 ESD Control Film

- Wait 4-7 days before attempting to clean freshly applied film. This will allow the film to dry and cure to the application surface.
- Wash only with deionized water or a very dilute, mild soapy solution if necessary.
- Never use solvents or ammonia for cleaning.
- Never clean with brushes, paper towels or any kind of abrasives.

