



Clean-View Pads 5850

Installation Guide

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Technical Bulletin

Overview

This technical bulletin is intended as a tool for providing optimal product installation. Customers should attempt to install a small sample of 3M™ Clean-View Pads 5850 on a test surface prior to performing a full installation.

Surface Preparation

Most substrates common to 5850 applications are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol (IPA) and water. Where heavy oils or greases are present there may be a need to first cut the oil with a “degreasing” solvent, but this should always be followed with an IPA-water cleaning to help ensure that any “degreasing” residue is removed.

Note: When using isopropyl alcohol or any other solvent, follow the manufacturers precautions and directions for use when handling.

Procedure

Spray or wipe the cleaning solution onto the surface and scrub with a clean rag or paper towel until the surface is dry. Cotton rags and heavy paper towels tend to work most efficiently. Be sure to change rags or towels often to avoid smearing the dirt around or contaminating already clean surfaces. One or more rags for cleaning and one rag for drying are suggested.

Suggested Methods of Installation

Clarity may differ in the final application, depending on the method selected for installing the 5850 pads. The following methods provide a brief summary as to what results may be achieved if that particular system for applying the film is followed:

1. Application Roller Method

In the application roller method, 5850 pads are applied to the final substrate by means of a roller. Rollers may be purchased from any industrial catalog retailer or hardware store. Recommended roller widths will vary depending upon the overall size of your pad. Some suggested widths are 2” and 6”. These widths allow for easy control as well as application flexibility.

After following the cleaning steps outlined in the **Surface Preparation** section, allow the surface to dry. Next, remove the 5850 pad from the package and position the pad so that the red tabbed corner of 5850 is located along the top of the surface to be protected. After the pad’s position has been determined, removing approximately 1” (leading edge) of the pad’s protective liner. Next, reposition the 1” or leading edge to top edge of the surface to be protected. Use firm hand or thumb pressure, apply the exposed adhesive (or leading edge) to the surface (see Figure 1).

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Once the pad's leading edge is secure, use the roller to apply uniform pressure to the pad while removing the protective liner. Each pass with the roller should adhere approximately 1" (width will be depended on roller width) at a time, perpendicular to the pad (See Figure 2). This will help prevent air bubbles from forming between the pad and the application surface.

After the entire pad has been rolled down, it can be used immediately for over-spray protection. After the top sheet has been contaminated from over-spray the top sheet can be easily removed by grasping the red tab and in a downward motion pull the sheet to remove and expose a clean layer (See Figure 3).

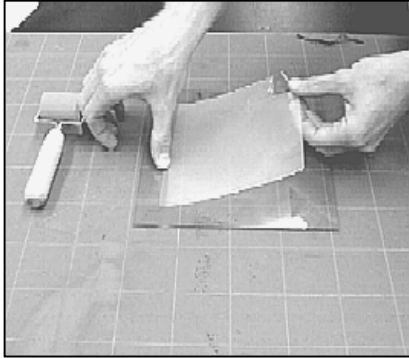


Figure 1

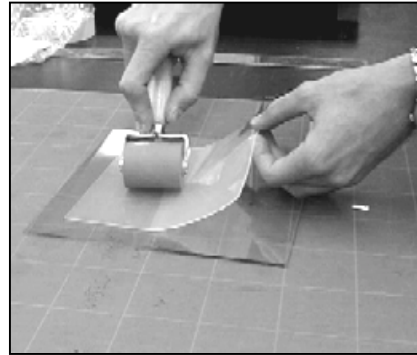


Figure 2

2. Water Misting Method

Using Water Misting Method, pads are applied to the final substrate by means of a gentle mist of water and a roller/squeegee. Rollers and squeegees may be purchased from any industrial catalog retailer or hardware store. Recommended roller widths will vary depending upon the overall size of your pad. Some recommended widths are 2" and 6". A recommended squeegee with is 4". These widths allow for easy control as well as application flexibility.

After following the cleaning steps outlined in the **Surface Preparation** section, do not allow the surface to completely dry. Make sure that only a thin mist of water/isopropyl alcohol (IPA) remains on the application substrate (see Figure 3). Next, remove your Clean-View Pad 5850 from the package and line up the pad to the corners of the intended application surface. After removing the protective liner, apply approximately 1" of the pads leading edge to the initial contact point using your thumb (see Figure 1).

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Apply the pad the using the same roller techniques as outlined in the **Roller Application Method**. The Water Misting Method allows the adhesive to wet out more effectively then other methods and helps reduce the chance of air bubbles occurring between the pad and application surface. The major draw back in the Water Misting Method is that the pad must now dry before it can be used. Depending on the amount of water that is sprayed on the substrate, drying make take anywhere from one to two hours. In some test cases the Water Misting Method produced results where the pad appeared clearer than other non-water installation methods.

3. Free Hand Installation Method

In the Free Hand Installation method, pads are applied to the final substrate by means of a rubbing action with your hands.

After following the cleaning steps outlined in the **Surface Preparation** section, allow the surface to dry. Next, remove your Clean-View Pad from the package and line up the pad to the corners of the intended surface. After removing the protective liner, apply approximately 1" of the pads leading edge to the initial contact point using your thumb (see Figure 1). Next, use your hand to rub the pad down in place. Make sure while rubbing the pad down to rub in the direction perpendicular to the direction of the application. You should use your hand to rub across the pad at a rate, which applies no more than ½" to 1" for each stroke (see Figure 4).

The major draw back in the Free Hand Installation Method is that the pad has a higher chance for having bubbles being introduced during each rubbing motion. Depending on the end users needs, the results generated from the Free Hand Method may prove to be acceptable.

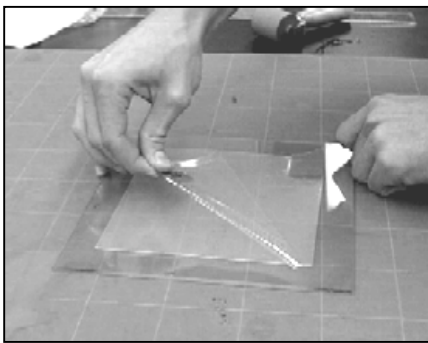


Figure 3



Figure 4

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Technical Information and Data

The technical information and data, recommendations, and other statements provided in this brochure are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be used with the 3M product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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