

See Bulletin Change Summary on last page.

Application and Maintenance of Petroleum Pump Graphics

| Prepare the Substrate | See Instruction Bulletin 5.1, Application, Substrate Selection, Preparation and Substrate-specific Application Technique. | | |
|--|--|--|--|
| | For application over existing graphics, be sure they are are well adhered over the entire substrate and in generally good physical condition, then clean the graphics. | | |
| Review General Application Techniques | See Instruction Bulletin 5.5, General Procedures for Interior and Exterior Dry Applications. | | |
| Health and Safety | | | |
| <u><u> </u></u> | When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information. To obtain MSDS sheets for 3M products go to 3M.com/MSDS, or by mail or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501. | | |
| | When using any equipment, always follow the manufacturers' instructions for safe operation. | | |
| Air Quality Regulations | State Volatile Organic Compound (VOC) regulations may prohibit the use of certain cleaning chemicals with VOC's in graphic arts coatings and printing operations. For example, the California South Coast Air Quality Management District prohibits use of certain solvent-based solutions without a permit and other California AQMD's prohibit use of certain solutions without a permit or a regulatory exemption. Check with your State environmental authorities to determine whether use of this solution may be restricted or prohibited. | | |
| Warranty and Limited Remedy | The information contained and techniques described herein are believed to be reliable, but 3M makes no warranties, express or implied, including but not limited to any implied warranty of merchantability or fitness for a particular purpose. 3M shall not be liable for any loss or damages, whether direct, indirect, special, incidental or consequential, in any way related to the techniques or information described herein. | | |
| Application to Pump Skirts | Each pump skirt is slightly different, especially at older service stations. The following are general guidelines for installation. | | |
| | 1. Remove the pump skirt. | | |
| | 2. Prepare the substrate by removing dents, feathering chipped paint, and removing existing graphics. | | |
| | 3. Remove all hardware, locks, side shields, shoulder pads, rubber bumpers, etc. | | |
| | Thoroughly clean the pump skirt, including the back side of the skirt where the film will wrap around it. | | |
| | To reduce bulk so that the film wraps neatly around the pump skirt, cut away some film. In this example, cut the film on solid lines and remove the white sections. See FIGURE 1. | | |
| FIGURE 1 Cutting Diagram for Pump Skirt | | | |
| | Cut out areas approximately as shown in white | | |

- 6. Apply and wrap the film around the pump skirt, following the steps below and referring to FIGURE 2.
 - As you wrap the edges of the film, keep in mind that you want the overlaps to be Note: positioned downward, so moisture is less likely to seep under the film.
 - Apply the film to the face. Step 1
 - Step 2 Apply the film to the bottom. Wrap or cut back the edge at a 45° angle.
 - Step 3 Apply the film to the sides. Wrap or cut back the edge at a 45° angle.
 - Step 4 Apply the film to the top and wrap or cut back the edge at a 45° angle.
 - Wrap and apply the triangular pieces of film, which extend from the sides, Step 5 around the corners. Trim as needed.



7. Carefully cut an **X** from corner to corner in all openings where hardware, gages, etc. are located. Trim and fold back the film. Squeegee firmly. See FIGURE 3.



Cutting for Openings

Cleaning Frequency

These instructions are only a guide. The end-user has ultimate responsibility for care of the petroleum pump graphic applications, which includes the cleaning required to maintain your 3M graphics warranty. 3M does not assume any responsibility for damage to pump graphics caused by improper maintenance efforts, or the lack of such maintenance.

Clean daily for optimum appearance. Cleaning is fast and easy and it helps maintain the luster, bright color, and the overall sharp appearance so your graphic looks good throughout its warranted service life.

Infrequent cleaning allows petroleum residue, dirt and dust to accumulate on pumps. This contributes to a change in color, visual appearance and sign brightness, which may not be noticeable at first, but when it is, may be more difficult to clean and restore to good appearance. Keep in mind that contaminants may also cause permanent staining of the film.

Cleaning Solutions

Cleaning Procedure for Applied Graphics

Removing Difficult Contaminants

3M Related Literature

General cleaning products must meet the following requirements when applied to signage at cleaning strength. Use a mild liquid detergent and water solution with the following attributes

- Designed for high-quality painted surfaces
- Wet and non-abrasive
- Regarding solvents and printed graphics
 - graphics with overlaminate: no strong solvents
 - graphics with or without a clear coat: no solvents and no alcohol
- pH value between 3 and 11 (neither strongly acidic nor strongly alkaline);
- Free of strong aromatic solvents, chlorinated solvents and ketones, such as acetone and methyl ethyl ketone.
- 1. Spray the graphic with clean water to remove loose dirt particles. A trigger-type hose nozzle is a convenient tool.
- 2. Use a mild liquid detergent and water solution as described above.
- 3. Wash thoroughly from the top down using a soft brush, rag or sponge. Do not use abrasive cleaning tools.
- 4. Use care not to abrade the graphic by unnecessary or harsh scrubbing.
- 5. Rinse during and after cleaning to wash away dirt.
- 6. Allow to air dry.

Stubborn contaminants usually can be removed as follows. Other cleaning products and methods should be used only on a customer test-and-approve basis.

To remove tar, oil, diesel smut or bituminous material:

- 1. Wipe with 3M[™] Citrus Based Industrial Cleaner, 3M[™] Prep Team All Purpose Cleaner, Simple Green® All Purpose Cleaner or a rag dampened with kerosene, mineral spirits, heptane, or VM&P naphtha. Do not use other solvents.
- 2. Wash immediately with detergent and water, then rinse with clean water.
- 3. Allow to air dry.

Before starting any job, be sure you have the most current Product and Instruction Bulletins.

The information in 3M Product and Instruction Bulletins is subject to change. Current Bulletins are available at 3Mgraphics.com. The techniques described in these Bulletins are required when applying a 3M warranted graphic, but are also practical recommendations when using promotional materials for non-warranted graphics. Additional Bulletins may be needed as indicated in the 3M Related Literature section of other 3M components you use.

Bulletin types: PB = Product Bulletin; PB-IB = Product & Instruction Bulletin; IB = Instruction Bulletin

| Subject | | Bulletin No. |
|---|-----------------------------------|--------------|
| Application, substrate selection, preparation and substrate-specific application techniques | | 5.1 |
| Application, general procedures for indoor and outdoor dry applications | | 5.5 |
| 3M Graphics Market Center Warranty Brochure go to www.3Mgraphics | to www.3Mgraphics.com, Warranties | |

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Includes information previously in Instruction Bulletin 5.4.

Bulletin Change Summary

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