



Fasara™ Glass Decorative Film

Description

This bulletin gives specific instructions of the application and maintenance of Fasara™ Glass Decorative Films. Please refer to the Product Bulletin for general information.

For the Best Results

Read this bulletin thoroughly before starting the application. Applying a graphic is more than just adhering the film to the substrate.

Apply the graphic only to one of the warranted application surfaces.

Flat and glass substrates only!

Health and Safety

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, contact your local Technical Service person.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Tools

- Squeegee: Rubber hardness 80, Thickness 6 mm or more, Width 200 mm
- Cutter
- Ruler
- Aerosol can for aqueous solution of mild detergent

Preparation

- Carefully clean the glass and frame before application to remove dusts from the surface.
- Prepare aqueous solution of mild detergent with following concentration:

Add 4 to 8 ml of mild detergent to 4l of water. [Concentration: 0.1% to 0.2%] 4l solution can be applied to approximately 30m² of glass.

Note

Too high concentration: The squeegee and film will slip and preventing the application of sufficient pressure.

Too low concentration: Parts of the film will stick. Or the squeegee will not travel smoothly causing defective application that leaves water behind.

Application Procedure

Install correctly following the instructions from 3M.

Application substrate is flat glass only and the recommended application temperature is from +12°C to +38°C (air and substrate).

Make sure the film is correct for the application (all films except Mat Crystal 2 and Milky Crystal are for indoor use only).

Handle with care since Fasara is thinner and folded more easily than regular interior decorating films.

Use the squeegee with appropriate hardness recommended by 3M (see item "Tools" above).

Carefully clean the glass and frame before application to remove dusts from the surface (see item "Preparation" above).

1. Use the aqueous solution of mild detergent (see item "Preparation") during application to make film alignment easier. Apply it evenly to the adhesive side and glass surface while using the aerosol can.
2. Position the film onto the glass substrate. Due to the moisture it is possible to slight with the film to the right position. Apply the entire film to the glass with even pressure.
3. Apply the aqueous solution again to the already fixed film. Start application with using the squeegee from the middle to the left and right. Use right pressure to be sure that all water is pressed out.
4. Dry the whole application. Be careful within drying at the edges to avoid lifting.

Application Precautions

- Do not overlap the films. The product will be out of warranty in case of overlapping application.
- Striking the film surface with hard objects could damage it. Do not scratch it with metal or other objects.
- Do not apply stickers or seals to the film or write on it with markers.
- When jointing films, there could be a slight difference in appearance in color, etc., depending on the product lot, so do not use products from different lots next to each other.
- The surface of the film could be damaged by burrs on the ruler used during joint. Be sure to use a ruler that has no burrs. Further, take such measures as putting masking tape on the back of the ruler. Especially for black films, the scratches on them are highly visible.
- Some types of glass on which a Fasara™ Glass Finishes has been installed may crack as a result of the high temperature caused by the glass's material properties and application conditions. To ensure a safe, calculate the probability of this thermal crack prior to the installation.

Finishing the Application

The “residual water phenomenon” is that the moisture during application remains between the glass and the film even after application is completed and causes small water bubbles or clouding to form.

This phenomenon will disappear as the moisture evaporates, but this may take several days when the film is in the shade or the temperature is low.

In case of the new design Fasara, RE1SIAR and SH2SIIM, it takes time to dry out due to metallic membrane layer. Fully-pressing should be made to shorten the dry out time. About 2 months may be needed for the dry out in winter season.

Note

This does not apply when the film was not applied correctly.

Maintanace and Cleaning

If the surface of the film becomes dirty, leaving it could cause film to deteriorate sooner. In addition, dirt will lower the reflectance and other performance of the film. Regularly clean the film to maintain its performance.

Pay attention to the following points when cleaning the film side of the glass.

1. Wipe in one direction with a soft cloth (do not wipe back and forth).
2. Carefully wash with the water using a rubber squeegee or a damp, soft cloth (do not wipe with a dry cloth).
 - If very dirty, use a mild detergent (Do not use ammonia based, chlorine based, or organic based detergents).
 - If there is sandy dust, metal dust, or gritty dust on the film, first carefully wash it off with a damp cloth. (If the film is rubbed up forcedly, it might be damaged.)
 - When using a rubber squeegee for window glass, be careful not to touch the film with the metal parts of the squeegee (especially the edge and bolts. The film is about as hard as 2H pencil hardness.).
 - Wipe in only one direction on the film surface (do not wipe back and forth).
3. Do not use a brush or polisher.
 - Using a brush, polish, a sponge containing polish, or a cloth dirty with sandy dust could scratch the film.
 - Do not use a cleaning compound, etc., because it could rub off the film surface.
4. How to remove coating and caulking material from the film
 - Use toluene or alcohol to remove it. However, take the following precautions.
 - Only use a small amount on areas where necessary.
 - Do not leave a solvent on the film for a long time.
 - Absolutely do not allow the solvent to contact the edge of the film (The solvent will damage the adhesive and degrade the appearance).
 - Always wash it off with water when finished.

Removal

Remove Fasara™ Glass Decorative Film by lifting one edge and pulling it off at a sharp angle - about 135 degrees - with smooth, even tension. A scraper may be used to lift the edge and to remove adhesive residue on the surface without a heat gun and / or chemicals.

It may also be helpful to cut the graphic into strips about 5 centimeters wide and then pull off each strip. Use a razor blade with safety handle.

Important Notice

This bulletin provides technical information only. All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the

prevailing law. Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.

For Further Assistance

For help on specific questions relating to 3M Fasara Glass Decorative Films or any other Architectural Market Department products, contact your local Technical Service representative or

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