

INSTALLATION & APPLICATION INSTRUCTIONS

Photoluminescent Emergency Evacuation System Signs

MEA approved. BR (Brightness Rating): 50-13-7

3M™ 6900 HPPL

TS/ISO 16949 | ISO 14001 | Class 10,000 Clean Room

APPLICATION

Intended for interior luminous signs and markings, including safety signage in buildings. Adhesive-backed signs are intended to be used to outline egress pathways, stairs, handrails, entry/exit doors and obstacles, so that occupants can discern these egress path elements in dark conditions. Aluminum-backed signs are to be used when adhesive-backed signs are not appropriate, i.e. rough surfaces.

GENERAL PERFORMANCE CONSIDERATIONS

The durability of 3M™ Photoluminescent Film 6900 HPPL depends on the following:

- Selection and preparation of the substrate
- Application methods
- Cleaning methods

Apply photoluminescent safety signs like any other 3M pressure sensitive film. The application temperature range for both the air and substrate is 50°F to 100°F (10°C to 38°C).

SURFACE PREPARATION

1. Surfaces to be marked with adhesive-backed 3M™ 6900 HPPL Photoluminescent Safety Signs should be as clean, dry and smooth as possible. Floors may require cleaning to remove all traces of oils, grease, moisture, and any accumulation of waxes, coatings, finishes as well as dust, dirt and other grime.
2. Cleaning solutions should be chosen that do not leave residues or waxes on the surface to which the tape is to be applied. Always allow sufficient time for thorough drying of the cleaning solution prior to application of the tape.
3. Rough areas may need sandblasting, scraping, sanding or grinding to help ensure maximum contact of the tape to the application's surface. Any dust, particulate or contamination must be removed prior to applying the tape.
4. Freshly sealed surfaces, including, but not limited to, concrete, varnished or waxed floors should be allowed to dry thoroughly prior to application of the tape.

APPLICATION PROCEDURE

Note: It is strongly recommended that all photoluminescent safety signs, both adhesive-backed and aluminum-backed, be tested on the actual surface in an inconspicuous area prior to use in the intended application to determine compatibility with flooring, wall, door and other surfaces.

Adhesive-backed signs

1. Surfaces to be marked with adhesive-backed 3M™ 6900 HPPL Photoluminescent Safety Signs should be as clean, dry and smooth as possible. Floors may require cleaning to remove all traces of oils, grease, moisture, and any accumulation of waxes, coatings, finishes as well as dust, dirt and other grime.
2. Rough, porous, or fibered surfaces may require priming. 3M Primer 94 is recommended to help promote adhesion to a wide variety of substrates. Careful evaluation is suggested to ensure performance is adequate for a particular use and application method. (Follow application procedures included with 3M Primer 94.)
3. For signs, remove the liner from the back; position and align the sign on the surface and tack down lightly to hold in position. For tapes, start at one end and work your way to the other end, removing the backing as you go.
4. Using a PA-1 applicator with a SA-1 low-friction sleeve or a weighted tape roller, press the tape to the surface using firm overlapping strokes starting in the middle and smoothing toward the edges to minimize air bubbles, wrinkles and gaps. If application bubbles exist, puncture the film at one end of the bubble with an Air Release Tool and remove entrapped air with

APPLICATION PROCEDURE (CON'T)

Aluminum-backed signs

1. Surfaces to be marked with aluminum-backed 3M™ 6900 HPPL Photoluminescent Safety Signs should be as clean and as possible. Floors may require cleaning to remove all traces of oils, grease, moisture, and any accumulation of waxes, coatings, finishes as well as dust, dirt and other grime.
 2. Aluminum signs can be installed by mechanical or adhesive means.
 3. For mechanical installation, position and align the sign on the surface and attach into the wall with screws. Take care not to over tighten as the sign may become damaged. The surface may need to be pre-drilled and anchored depending on the surface condition. It is the users responsibility to test and select the proper the appropriate hardware for installation.
 4. For adhesive installation, clean, prepare and prime the surface according the adhesive manufacturer's instructions. Make sure the selected industrial adhesive is specifically intended for the application. Position and align the sign on the surface and press firmly into place. Using a weighted tape roller, start in the middle and roll toward the edges. Allow for full curing time of the adhesive.
- * Light Fab recommends 3M™ VHB™ industrial tape. This product must be tested for each specific application.
** Bond strength depends on the degree of adhesive wet-out to both the sign and the application surface. Firm application pressure improves bond strength.

Tools for Adhesive-Backed Signs

Plastic Applicator, PA-1
Low Friction Sleeve, SA-1
Air Release Tool, ART
Paper Towel (lint-free)
Retractable Knife
Heat Gun
Paint Scraper
3M Medium Sanding Sponge
General Purpose Cleaner
3M Citrus Base Industrial Cleaner (for adhesive removal only)

Tools for Aluminum-Backed Signs

Screws (Stainless steel with washers recommended)
Drill
Screwdriver

MAINTENANCE AND CLEANING

1. Do not cover products or obstruct from light for extended periods of time as glow may be compromised.
2. Keep signs and tapes clean with a mild cleaning solution. Do not use power washers or cleaning products that may cause abrasion and/or scratching.
3. Test cleaning solutions on a small area prior to use to make sure they do not negatively effect the performance of the products.
4. Immediately remove and replace any damaged signs or tape.

FOR MORE INFORMATION

To request additional product information, please call toll free 800.836.6920 ext 262. Or, visit our website at www.MEA safetysigns.com.

PRODUCT USE

These installation instructions do not claim to cover all details or instructions. Factors beyond Light Fab's control can affect the use and performance of this product, including the conditions under which the product is used and the time and environmental conditions in which the product is used and expected to perform. It is essential that the user evaluate the product to determine whether it fits their particular application and is suitable for the user's method of application assembly of their products.

LIMITATION OF LIABILITY

Light Fabrications, Inc. assumes no liability for claims beyond the replacement value of our product proven defective. Except where prohibited by law, Light Fabrications and 3M will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.