

User's Guide

Please read through entire guide before removing film from box.

Check www.ReflecTechSolar.com for updates.

Application Technique

ReflecTech[®]PLUS mirror film should be applied to the substrate using a squeeze roll laminator equipped with clean rubber rollers. The film mounts on the unwind shaft and feeds around the application roller. The aluminum sheet feeds between the application and support rollers. The laminator removes the release liner onto the rewind shaft and bonds the adhesive to the substrate.

To improve adhesion and eliminate trapped dust that prints through the film, clean the aluminum sheet with isopropyl alcohol to remove residues, wipe dry, and use a tack cloth immediately before lamination. One method proven effective is a tack roll applied immediately before the substrate enters the nip rollers. Static bars or grounding tinsel is recommended to reduce static charge that can cause misalignment and shock.

Both the substrate and mirror film must be between 60°F / 16°C to 90°F / 32°C during lamination.

Pressure Sensitive Adhesive

ReflecTech[®]PLUS mirror film comes with a pressure sensitive adhesive (covered by a release liner) on the back. The adhesive is acrylic-based, very durable, ready for application to a structural substrate, and perfectly suited for outdoor use. After lamination, allow 48 hours for the adhesive to develop full strength. To lift the corner of the release liner away from the adhesive, use two small pieces of tape – one on the mirror surface and one on the liner, gently pulling the pieces of tape apart.

Structural Substrate

ReflecTech[®]PLUS mirror film is commonly laminated to “mill-grade” aluminum sheets, the smoothness of which preserves the specularity of the finished mirror surface.

Edge Tape

Use of an outdoor durable edge sealant on all edges of ReflecTech[®]PLUS mirror film is required to ensure the maximum lifetime of the film. An appropriate edge sealant / tape can be ordered from ReflecTech, Inc.

For more information, please contact:

info@reflechtsolar.com

ReflecTech, Inc.

18200 West Highway 72

Arvada, CO 80007, USA

303.330.0399

CAUTION! Sharp edges. Use protective gloves when handling ReflecTech[®]PLUS mirror film.

- Hand lamination should not be attempted with ReflecTech[®]PLUS mirror film.
- Where sheets are stacked, or transported in stacks, protect sheets from transfer of residue and damage by using clean spacer material between sheets.

Abrasion Resistance

A tough, transparent coating protects the surface of the film during transportation, handling, and installation, eliminating the need for a peel-off protective mask.

Proper Care of Film

ReflecTech[®]PLUS mirror film may be cleaned by pressure washing with deionized or demineralized water or standard wet-brushing methods used in utility-scale concentrating solar power plants. Detergents and solvents may not be used unless fully compatible and recommended for cleaning of clear acrylic. Prior to installation, cleaning tests should be conducted to ensure compatibility with the film.

Storage of Rolled Film

ReflecTech[®]PLUS mirror film should be stored at temperatures below 100°F / 38°C, and protected from moisture. Rolls should be stored horizontally (not standing on their ends) and supported from the cores.

