

New Custom Solution: Exterior Safety Film

Problem Description:

Two commercial and residential high rise properties on opposite ends of the globe were both constructed with poor quality glass balconies along with a threat of nickel sulfide inclusions. These poorly constructed glass balconies posed a safety risk for the owners, occupants and pedestrians below who could potentially be hit by falling glass shards. The inferior quality of materials used to construct the balconies also forced the building out of compliance with safety glazing standards.

After many attempts by both the construction and glass companies to remedy the problem they turned to the window film manufacturers. Madico, Inc. was the only film manufacturer that did not turn down the opportunity to investigate a solution to the situation.

Solution:

Madico customized two solutions: LCL-800-EXSR, a two ply 8 mil 200 μm exterior film with a 5 year vertical exterior life and the recently released LCL-900-EXSR a 9 mil 225 μm film with a 10 year vertical exterior life. Both are safety films intended for use on the exterior surface of glass to protect the outer lite of glass from causing injury should it be shattered by impact or other force. Madico was the first to introduce exterior films to the market and has manufactured exterior grade Safety and Solar Control window films for well over 20 years. The design of the clear films was based on Madico's best in class EXSR chemistry.

The resolution to these problems began over 10 years ago when Madico's R&D department started development of an exterior scratch resistant coating that could withstand outdoor exposure while offering a cleanable surface. Madico has offered this chemistry on our CL-700-EXSR 7 mil safety film for many years. The films come with a 5 year exterior film warranty, based on thousands of hours of accelerated weathering testing in our Atlas Weatherometer as well as through exterior exposure in South Florida and Arizona.

Both films are certified to CPSC Category II and ANSI Z-96 impact standards and by either a 5 year exterior warranty or 10 year exterior film warranty against manufacturing defects, cracking, crazing, and fading.

Madico stands behind its reputation as experts in exterior grade window films just as it stands behind all products sold.