

Sika at work



Empire State Building, New York

Reglazing and Refurbishing



Innovation & Consistency | since 1910



Project Description and Requirements

Erected in 1930-1931, the Empire State Building ranks among New York's most heavily frequented buildings, attracting some 4 million visitors each year. As an architectural monument of global standing, it merits particularly careful maintenance. As a result, roughly half a billion US dollars have been spent in recent years on its ongoing renovation and transformation into the city's most eco-friendly building. The overhaul is set to achieve energy savings in the order of 38%. Hence, the comprehensive, holistic refurbishment is not only designed to preserve a piece of the city's architectural and cultural heritage, but to lay the foundations for sustainable economic and ecological gains.

Sika Solution

The project required 6,500 windows that had to be renovated in the course of the project. To simplify the refurbishment process a special on-site processing center was established, where the windows were upgraded to contemporary standards. Each window unit was upgraded with Heat Mirror® and sealed with **SikaGlaze® IG-4429 HM** to increase their insulation value. Applying **Sikasil® WS-200 MJS** sealant, they were then refitted, water and airtight. 95% of the original glass could be reused. In addition, the observatory was redesigned and reglazed using **Sikasil® WS-295**.

Official measurements attest that in 2011 this method saved an estimated \$430,000 in energy costs.

Sika Products

SikaGlaze® IG-4429 HM
Sikasil® WS-200 MJS
Sikasil® WS-295

Project Participants

Project Name and Location: Empire State Building, New York, New York

Project Construction Manager: Johnson Controls

Contractors: Alpen High Performance Products (Serious Energy)
Kilroy Metal Products
Skyline Windows

Project Finished: 2010

Sika Industry

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Please consult the Product Data Sheet prior to any use.

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