



## North Shore Congregation Israel, a Jewish Synagogue — Glencoe, Ill

This one-of-a-kind temple was built in the 1960s and has often received praise among the architectural community for its unique and untraditional design. The synagogue's roof is a fragmented conglomeration of varying angles and slopes that is further complicated by an abundance of rooftop skylights. Most of the rooftop consists of spray polyurethane foam (SPF) insulation topcoated with numerous layers of protective coating that were applied years ago.

With the help of a local roof consultant and architect, the church opted to replace the aged system with a similar combination of SPF foam and protective coatings. The decision was based on the previous system's

longevity and the fact that few alternatives could be easily, or safely installed on such a steep and treacherous slope.

The coatings that were specified for the project included DIATHON® and KYMAX®, manufactured by UNITED COATINGS. DIATHON served as an elastomeric basecoat, while KYMAX provided a highly weather-resistant protective topcoat.

Insulated Roofing Contractors (IRC), an SPF roofing specialist headquartered in Louisville, KY, was selected to handle the re-roofing project and the foam was provided by BASF.





Before IRC could apply any new materials they had to remove the old roofing system. After the old materials were removed and the building's concrete roof deck was exposed and cleaned, they began applying the new BASF foam system.

IRC then applied two layers of UNITED COATINGS' DIATHON over the SPF insulation at a rate of 1.5 gallons per 100 square feet. The basecoat was pumped directly out of five-gallon pails using an airless spray pump at 3,000 PSI.

Applied at a rate of one gallon per 100 square feet, the second coat of DIATHON was slightly thicker than the first.

When all four roof sections were covered with SPF and DIATHON, IRC moved to the KYMAX application. They applied two separate coats of KYMAX, in the same fashion except at a lower rate of ½-gallon per 100 square feet per coat.



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