

Case History



Project Name:	Charles B. Wheeler Downtown Airport
Location:	Kansas City, MO
Type of Project:	Silicone roof application, 91,000 sq ft
Specification:	RC-30-GFS20 (Recoat, 30 dry film mils, GacoFlex S-20)
Contractor:	Clark and Associates
Area Manager:	Adam Scheafbauer
Customer:	Signature Flight Support
Problem to be Solved:	Leaking EPDM roof

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Failing Airport Roof Restored Using *GacoFlex S-20*



Before applying GacoFlex S-20 the existing roof had significant deterioration



After applying GacoFlex S-20 the roof surface is smooth and defect-free

PROBLEM: As drivers prepare to cross the bridge near downtown Kansas City they see the roofs of the historic buildings that make up the Charles B. Wheeler downtown airport. Dedicated by Charles Lindbergh in 1927, these buildings have been transformed from the city's international airport to a General Aviation Airport.

Signature Flight Support operates the center, and they faced a major maintenance problem. The existing roof, a leaking layer of EPDM and a small portion of TPO, meant that the hangar hadn't been dry for the last 22 years. Pollution had literally etched holes in the existing EPDM.

SOLUTION: Clark and Associates, a roofing contractor, applied GacoFlex S-20 over the entire roof. There was no need to tear off the existing EPDM roof, significantly reducing the expense to Signature Flight. And with the S-20's excellent waterproofing capabilities, Signature Flight was finally able to keep their hangar dry. Says Bryan Orr of Signature Flight, "Layers of deteriorating material caused leaks that washed the pollutants on the roof into the hangar and threatened the paint of the aircraft inside. The S-20 was a phenomenal solution to this problem." Another advantage of the S-20 solution is that in summer the interior of the hangar now feels significantly cooler than the outside.

UNIQUE CHARACTERISTICS:

Jet fuel, traffic, a railroad yard, and a manufacturing plant left years of deposits on the roof. The deposits matched the existing black roof, making it very hard to see what needed to be cleaned. Jim Clark, the contractor on the job, described the situation this way: "I washed the roof six times with both detergent and a concrete stripper. But once the cleaning was done and we applied the coating system we discovered that you can't find a better coating system than S-20."

INSTALLATION DETAILS: The roof was laboriously cleaned of all pollutants, areas of rotting plywood deck were replaced, the roof was primed with Gaco Western E-5320 primer, and the GacoFlex S-20 silicone was applied. Signature Flight chose S-20 in white, to reflect sunlight and keep their office area cooler in the summer. After the roof was cleaned seams that were opening were repaired and EPDM coming off a parapet wall was replaced with new EPDM. A complete GacoFlex roofing system that can be warranted includes D-09 detergent, E-5320 primer, and S-20 coating.

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