

X-TENDA COAT™ XTRA

Silicone Coating

CASE STUDY

Carlisle SynTec Systems' X-Tenda Coat XTRA Silicone Coating Used in a Direct Recover of the National Air Defense Radar Museum



JOB PROFILE

PROJECT LOCATION:

» Bellefontaine, Ohio

PROJECT SIZE:

4,000 SF

ROOFING APPLICATOR:

Van Martin Roofing

SYSTEM:

» Carlisle SynTec Systems' X-Tenda Coat XTRA Silicone Coating – Direct Recover Over Concrete Deck

About the Project

The Bellefontaine Air Force Station was built in 1960 to house an AN/FPS-26 Height Finder Radar system tower. The Air Force Station was closed in 1969. The site is now occupied by the Ohio Hi-Pointe Career Center and is leased to the Air Force Radar Museum Association.

The interior steel superstructure of the radar tower was designed to withstand the extreme loading of a hydraulically-operated height finder antenna which could nod, rotate, stop and start in all directions with violent movements and the associated structure loading. The exterior of the tower is rectangular but the interior steel support is not parallel or square, making it a unique structure. The original roof was covered by an inflatable radome but was never designed to withstand certain elements; sealing it well to prevent leaks is critical to the building's survival.

The Problem

The radar tower, which is one of only five structures of its kind, has been largely refurbished over the last three years, but the existing roof system continued to leak. The water was taking a serious toll on the floors below, posing a threat to the historical Cold War Air Defense artifacts, including a 1958 gap-filler radar antenna, housed within the museum.



The Solution

Van Martin Roofing, a Carlisle Authorized Applicator since 2018 and based out of Dayton, OH, was selected to complete the re-roof of the radar tower. Using their skill and expertise as well as guidance from Carlisle SynTec Systems and their Manufacturer's Representatives from SpecDesign, Van Martin chose Carlisle's X-Tenda Coat XTRA Silicone coating to apply directly over the structure's existing roof system. It was imperative to find a solution for securing a watertight condition with limited funds and available work space, and X-Tenda Coat XTRA was a very reasonable, effective, and economic decision.

"The Air Force Radar Museum Association greatly appreciates Carlisle's and Van Martin's assistance in preserving this priceless Cold War artifact," said Rich Banta, President of the Air Defense Radar Museum Association.

About X-Tenda Coat XTRA Silicone Coating

X-Tenda Coat XTRA, a single-component, moisture-cured, fluid applied, low-VOC silicone coating, was ideal for this project because of the building's tall, irregularly shaped structure which would have made it difficult to maneuver rolls of membrane and to complete the challenging detail work. Carlisle's X-Tenda Coat helps reflect solar energy and is designed to meet LEED® requirements, while helping to protect the museum from the elements and enhancing the longevity and performance of their rooftop.



CASE STUDY

About Carlisle SynTec Systems

Carlisle SynTec Systems has been the leader in the commercial single-ply roofing industry for more than 60 years. Carlisle provides superior roofing systems through a select network of manufacturer's representatives, distributors, and applicators. Carlisle's innovative product offerings include Sure-Seal® EPDM, Sure-Weld® TPO, Sure-Flex™ PVC, and FleeceBACK® membranes. The company also manufactures insulation, adhesives, primers, and membrane cleaners. In addition, Carlisle provides the building industry with coatings, sealants, vegetated roof components, skylights, pavers, and edge metal.

About Van Martin Roofing

Van Martin is a locally-owned roofing contractor based in Southwestern Ohio who specializes in residential, commercial, and industrial roofing repair and installations. Van Martin is all about providing home and business owners with the best possible roofing, siding, gutter, skylight services. Additionally, they have built a reputation for quality, integrity, and customer care that sets them apart from other Ohio roofing contractors. When you choose a roof by Van Martin, you will get a superior product and a local Ohio roofing professional to guide you through the process. No matter what your concerns are, you'll find that the Van Martin team will answer every question you have. Whether you are looking for residential, industrial, or commercial roofing in Ohio, they have got you covered.



Coating application in process



Completed coating application



Completed coating application

CASE STUDY

Emerge Recovery & Trade Initiative

The Emerge Recovery & Trade Initiative is a non-profit organization founded by Doug Van Dyke, Managing Partner at Van Martin Roofing. The organization exists to encourage restoration and healing in an inclusive and compassionate environment, while providing recovery, discipleship, education, and life skills opportunities.

Their mission is to provide an ecosystem for public and private collaboration, by harnessing shared resources to create a flourishing community of opportunity. Experts in the areas of emancipation, recovery, and workforce development, will provide training and life skills education while working to eliminate substance abuse and joblessness.

Located in the former Greene County Career Center near Xenia, Beavercreek, Fairborn, and Yellow Springs, Emerge's spacious campus will offer residential addiction recovery programs and transformational recovery housing for men and women while also providing onsite support for young men who have emancipated out of foster care and are transitioning into the world.

While residing at Emerge, clients will have access to individual and group counseling services, trade schools, career internship, and apprenticeship opportunities, life skill mentorship, and GED classes, all within a positive culture of building relationships with mentors and life coaches.

**Scan here to learn more
about the Emerge Recovery
& Trade Initiative**

