



SHERWIN-WILLIAMS CHARLOTTE PLANT ROOF RESTORATION PROJECT

Sherwin-Williams Roofing Solutions (Uniflex®) team helps clients develop long-term roofing asset management programs utilizing Uniflex Systems. Similarly, our Sherwin-Williams Global Supply Chain Engineering and Procurement teams work closely with the Sherwin-Williams Uniflex team to help preserve and maintain the roofing assets for Sherwin-Williams owned properties. Working hand in hand, the team established a process that allowed them to identify both short- and long-term needs with the goal of getting ahead of the continual reroofing cycle.

The Charlotte plant manager provided information on leak history and overall age of the roof. “Ongoing leaks were affecting the processing area, which required time and resources to move inventory to a dry location. Multiple repair options had been completed over the years with little to no long-term success” said Ed Crowder, Plant Manager.

After the evaluation, Sherwin-Williams Global Supply Chain and the Uniflex team developed a plan that included the following:

Conducting a moisture scan analysis using drones gave a “birds-eye view” of the entire site to allow the team to get a solid understanding of the roof condition. Drones are a cost-effective way to conduct moisture scans, especially when there are multiple roof levels, as with the Charlotte plant or when there are multiple buildings at one site location.

After review of the moisture analysis report was complete, a site visit was conducted by the Uniflex® Technical team to verify conditions. Core samples were completed to confirm the overall roof assembly as well as to confirm if any insulation was wet.

When the site visit and roof evaluation was complete, it was decided Uniflex was in fact the right choice for the project.

Having knowledge of the roof assembly and its condition allowed the team to determine the best possible solution to meet the companies’ goals. Basically, the facility had two options: overlay with a single-ply or install a Uniflex Fluid Applied System. The decision to install the Uniflex system was an easy choice. Key factors taken into consideration included the initial cost savings vs. reroof, a sustainable approach and a renewable system. The cost savings compared to an overlay was approximately 40%. The substantial savings was available to use for other needs at the facility. The second key factor is implementing a sustainable approach to assist in achieving the Sherwin-Williams 2030 Environmental goals. If an overlay was chosen as the option, in 15-20 years, two roofs would be torn off and added to a landfill. Because the Uniflex system was chosen, this system is now renewable. In 20 years, a renewable application of the Uniflex Silicone44® system may be installed. Implementing an annual maintenance program will allow this process to be repetitive, offering continued benefits for the Sherwin-Williams plant for many years.



UNIFLEX Fluid Applied Roofing Systems can be applied for the restoration of these existing roof types:



METAL



SINGLE PLY



CONCRETE



POLYURETHANE FOAM



**ASPHALT/BUR/
GRANULAR CAP SHEET**

Once the Uniflex® System was determined to be the best solution, the Uniflex and Sherwin-Williams Global Supply teams worked together on the bid process and invited Uniflex Authorized Contractor Partners to provide proposals. Once the bid process was complete, Unicoat Industrial Roofing, a long-term partner and Uniflex Premier Elite Contractor was awarded the project.

After making all necessary repairs to the roof, (including removing wet insulation and replacing with new insulation) the roof was prepped for the installation of the Uniflex Silicone44 20-Year System.

The first step was cleaning the EPDM roofs. The Uniflex Bond-It Wash Rinsable Primer was used to assist with the cleaning due to the oxidation of the membrane. This step may be omitted if adhesion testing confirms adhesion with Uniflex standard cleaning recommendations. The Uniflex Bond-It Wash Primer was applied directly to the membrane and low-pressure rinsed to remove all oxidation.

The next step included installing Uniflex OneFlash™ universal roof repair and sealant to the base of all stacks, vents and units on the roof. This single component, fabric-free sealant has over 700% elongation with the capability to move in the areas of the roof that typically see the most movement.

Once the first two steps were complete, Uniflex Silicone44® Coating was installed. Oftentimes, a contractor will utilize multiple application methods as part of the system. It can be sprayed, squeegeed or roller applied.

One important benefit of the Uniflex Silicone44 System is that it can be installed in temperatures as low as 35°F. Additionally, with a 98% solids formula, this coating cures quickly to provide a seamless application, while providing a bright white finish.

The final piece of the installation was to create walkways utilizing a safety yellow granular finish. Uniflex Silicone44 coating and granule walkway systems provides a designated path for roof-top traffic from various trades and is also renewable over time. Uniflex Silicone44 is packaged in several standard colors and custom colors are available.



The project was completed in the month of December with little disruption to manufacturing and no need to wait until plant shut down.

For Sherwin-Williams, the Uniflex roof restoration program is a crucial Enterprise partnership. This partnership allows the company to maximize its production of quality products, while providing a safe working environment and protecting its assets.

HELPING TO ACHIEVE THE SHERWIN-WILLIAMS 2030 ENVIRONMENTAL GOALS

Changing the roof from a black EPDM to a bright white finish also helped the plant save on energy costs, including **\$51,967** for electric and **\$21,124** for natural gas, for a total of over **\$73,000** saved in 2023 compared to the prior year.

Keeping roofs out of landfills is important to reduce the environmental impact. Restoring this 70,000 sq.ft. roof versus adding a second layer is a step in the right direction. Using industry published information, calculations show:

- **CO₂ Offset Potential: 2,910 Tons**
- **Landfill Reduction Potential compared to tear off: 113 Tons**
 - Includes landfill waste addition for coating material containers and applicators.
 - Roof Size: 70,000 sq. ft.
 - Roof Type: EPDM

Products used:

- Uniflex Silicone44®
- Uniflex OneFlash™
- Uniflex Bond-It Wash Primer
- 20 Year System Warranty



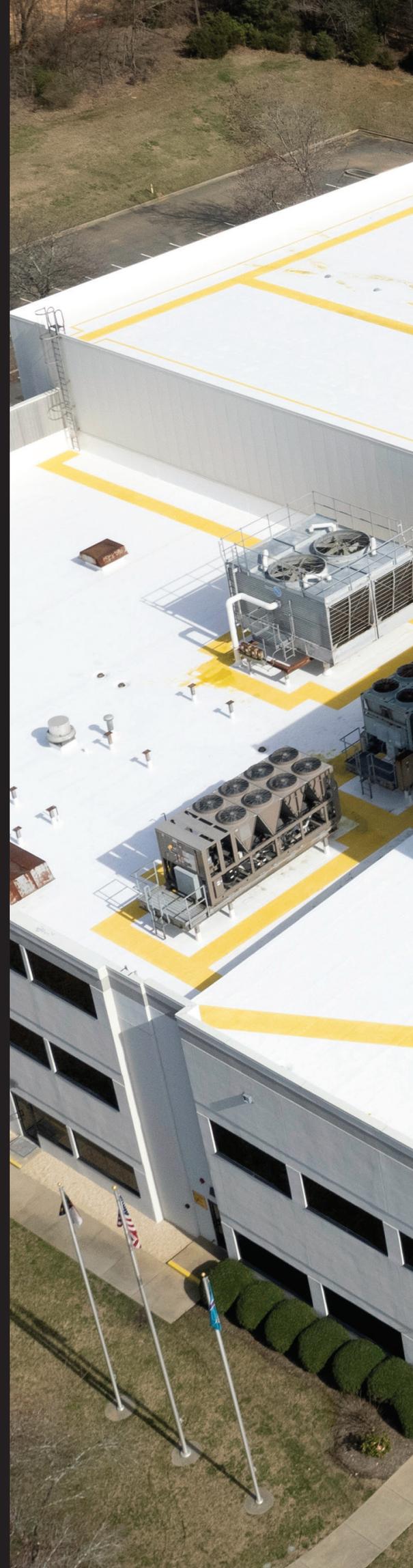
"We appreciate the collaboration from the Sherwin-Williams teams: Uniflex, Engineering and Procurement. The overall process was very smooth and time-efficient. The Uniflex System was a substantial savings and has eliminated our leaks. I was extremely impressed with the Uniflex Authorized Contractor Partner, Unicoat Industrial Roofing. From the bidding stages to the project completion, they were professional, diligent in their communications and easy to work with minimal disruption to our operations during the installation."

– Ed Crowder, Charlotte Plant Manager



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SHERWIN
WILLIAMS



INSPIRED SUSTAINABILITY

As an organization established to offer products that preserve and protect, sustainability is part of our history and rooted in all that we do. Our three sustainability pillars encompass the commitments, focus areas and goals that are most important to our Company:

PRODUCT BLUEPRINT



Driving Sustainability Through Innovation

Our Sustainability by Design program is a signature effort to intentionally consider sustainability attributes and life cycle thinking, including circular principles, in our product innovation and development processes. Beyond making choices to reduce the environmental impact of our products, we are also elevating their many beneficial applications, such as extending the life of assets.

ENVIRONMENTAL FOOTPRINT



Doing Our Part for the Planet

We are working to reduce environmental impact with a set of key goals to achieve across our operations by 2030. We use innovation and a continuous improvement approach toward reducing our carbon emissions, energy consumption and waste generation while expanding our renewable energy use.

SOCIAL IMPRINT



Elevating a Culture of Safety, Belonging and Community

Our commitment to our people is reflected in our unwavering efforts to promote the safety, health and well-being of our people; foster a culture of belonging to drive employee engagement and performance while attracting, retaining, developing and progressing a diverse pipeline of talent that reflects the communities in which we operate.



ONE PARTNER. EVERY SPEC OF THE WAY.™

From floors to roofs,
Sherwin-Williams is your one
partner for every project,
simplifying the specification
process from pre-design through
operation — supporting the entire
life cycle of the building.

Our building products
seamlessly blend aesthetics,
performance and sustainability
attributes for every season.





See the entire line of Uniflex® roofing products at uniflexroof.com