

“American Quality, American Pride”



CINCINNATI

DAYTON

ROOFING

Engineered Silicone and Foam Roof Restoration Systems

**Invest in one of our proprietary processes and customize
a system that fits your facility and budget**



**CS400 Series
15 Year Full System Warranty
50 Year Material Warranty**

SERVING THE MIDWEST (937) 797-7911 • DAYTONRR.COM

CDR ROOFING & RESTORATION USES 100% SILICONE

Features and Benefits:

- Degrades at .01mils per year
- High solids
- Solvent-free - VOC compliant
- Primerless applications
- Permanent ponding water resistant
- Rain safe in 30 min.
- Saves energy by reflecting heat
- Wide temperature application range:
35°F to 120°F (2°C to 49°C)
- 100% silicone moisture cure technology
- Chemically bonds with roof substrates as it cures
- Mold and mildew resistant
- Different colors available



Uses: Spray polyurethane foam (SPF) roofs, metal roofs, concrete roofs, recoating previously coated roofs, asphalt roofs - including Built-Up Roofing (BUR), Modified Bitumen (MB), and single-ply roofs - including EPDM, TPO, PVS, and Hypalon® roofs.

Description: CS Series Engineered Silicone Roof Systems can be applied to 100% Silicone White Roof Coating - High Solids is a premium, solvent-free, VOC compliant, 100% silicone, high solids, single component, moisture system coating designed to reflect the sun's heat and UV rays, as well as protect many types of roofs. It is specially designed to maintain maximum reflectivity of heat and UV rays as it ages. Additionally, its moisture cure chemistry creates a very aggressive chemical bond with the roof substrate, which allows for permanent ponding water resistance, and superior capabilities of sealing and protection.

- Meets or exceeds ASTM D-6694 Standard Specification for Liquid-Applied Silicone Used in Spray Polyurethane Foam Roofing Systems
- Meets or exceeds ASTM D-7281 Standard Test Method for Determining Water Migration Resistance Through Roof Membranes
- Underwriters Laboratories listed
- FM approved
- Energy Star rated
- Meets the requirements of California Energy Commission Title 24 Section 118(i)3
- Cool Roof Rating Council (CRRC) listed
- Florida Product Approval

ENGINEERED SILICONE ROOF SYSTEMS

Proprietary Process Series	Engineered Silicone Systems Installed On...
CS100	Ballasted Membrane
CS200	TPO, EPDM, PVC
CS300	Smooth/Gravel BUR
CS400	All Metal Roofs
CS500	Spray Foam Roofs
CS600	Mod. Bit./Torch Down
CS900	Box Gutters
CS1000	Repairs

CUSTOMIZED ROOF SYSTEMS

At CDR Roofing and Restorations, our Engineered Silicone Roof Systems are an economical and eco-friendly alternate to re-roofing. They provide a non-intrusive installation for building occupants. Having 88% reflectivity, these systems will also help save on utility costs.

Considered a maintenance repair by tax codes, your investment in one of our engineered systems can be written off in one year. Silicone systems are the only coating system in the industry to withstand ponding water. These systems carry up to a 25-year manufacturers backed warranty. With no two roofs being exactly the same, we will custom engineer the perfect system to fit your needs.

WHAT IS A SILICONE ROOF?

CDR Roofing and Restorations offers silicone based roof systems with up to a 25 year warranty backed by the manufacturer. A silicone roof system is the new technology verse old membrane roofs. These systems are a clean, economical and responsible solution for restoring weathered and defective roofs. Silicone systems are non-intrusive to install and are rain safe within 15 minutes of application. Our systems are the solvent-free alternative to replacing weathered roofs, offering proven performance and protection. Prices start at \$1.57 per square foot.

Silicone Systems are the Only Roof System Warranted Against Ponding Water Restore - Don't Reroof



» **Calculate Your Savings on Heating and Cooling with a CDR Silicone Roof System** «

Department of Energy Cool Roof Calculator

Estimates Cooling and Heating Savings for Flat Roofs with Non-Black Surfaces

- Developed by the U.S. Department of Energy's Oak Ridge National Laboratory (Version 1.2)
- This version of the calculator is for small and medium-sized facilities that purchase electricity without a demand charge based on peak monthly load. IF you have a large facility that purchase electricity with a demand charge, run the CoolCalcPeak version in order to include the savings in peak demand charges from using solar radiation control.
- To compare two non-black roofs, print out results of separate estimates for each vs. a black roof. Manually compute the difference in savings to compare the two non-black roofs.

To estimate your savings go to <http://web.ornl.gov/sci/roofs+walls/facts/CoolCalcEnergy.htm>

ON-SITE ADHESION TEST

Performed at the time of initial inspection, this test will determine our product's suitability for your roof.

1

The Benefits
Reason 1
Save on a more reliable and economical roof system while maintaining an industry best material and labor warranty.

- Lifetime warranty on material
- 100% UV Stable

2

The Benefits
Reason 2
A silicone roof has 88% reflectivity, creating savings on air conditioning expenses for your company.

CASE STUDY:
Computer Products in Cincinnati. Showed a cooling savings of 23% per season.

3

The Benefits
Reason 3
Save our planet! Green technology saves on landfill dumping. Our roofing system may provide LEED points and could provide tax breaks on utilities in your area. As a maintenance repair purchase, will provide a 1 year write off tax break.

Commercial Interior Spray Foam Solutions



>> Ask about our
proprietary
interior foam
solutions. <<

Our Commercial Spray Foam Solutions are commonly used in a range of industrial, institutional and agricultural facilities such as office buildings, schools, hospitals, chemical & water treatment plants, controlled-atmosphere storage for horticultural crops, wine storage tanks, and agricultural buildings to solve a variety of insulation and condensation issues. Whatever the application, we have the solution. Extended warranties are available.

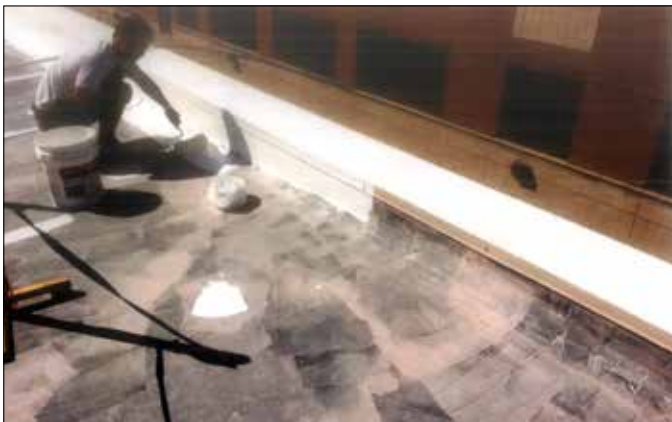
CS 100 Series Process Ballasted EPDM Roof - Cincinnati, Ohio



Shows a ballasted EPDM roof with HVAC units, skylights and coping. Has multiple leaks.



Shows the rock off the roof exposing the dirty membrane. Ready to clean.



Shows the coping being flashed. The membrane was primed and we flashed the coping to the membrane 30-40 mils with fibered mastic.



CASE STUDY: Saved 23% on cooling costs and reduced warehouse temp by 18-20 degrees in summer.

CS 100 Series Process Cincinnati, Ohio



Shows all the seams and field mechanically fastened and flashed with 20-30 mils of product. These pictures do not show the whole mechanical fastening process.



15 Year Material
Labor Warranty

This shows the silicone process is completed. 22-25 dry mils.

Note: This cooled the interior of the facility by 18-20 degrees and significantly cut their cooling costs by 23%.



Walk pads on a finished roof.

CS 400 Series Process Fairfield, Ohio



R-Panel Roof 180,000 sq ft. with engineered flashing, curbs, walk pads, crickets and expansion joints.



This picture shows a loose seam. We add 1-2 screws to each 12" length of seam as our engineering process requires.

CS 400 Series Process Fairfield, Ohio



R-panel roofs are bad for crimping ridges. At Coating System Solutions, we structurally repair and seal these flaws.

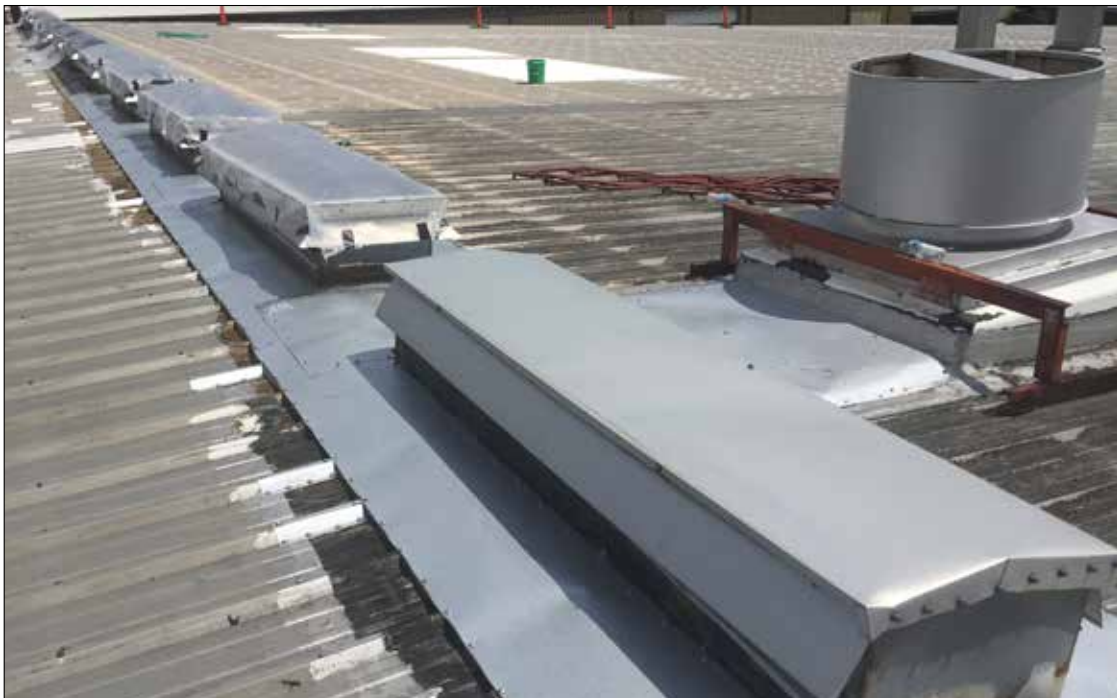


For facilities with parking problems, we provide car covers. Soft fabric won't scratch paint job on cars. This eliminates over-spray being an issue on vehicles.

CS 400 Series Process Fairfield, Ohio



After our cleaning process we change out bad roof panels and seal them per our specifications. This job had 120 panels 12" long replaced.



This shows new metal on the ridge replaced with 24 gauge galvanized sheets. Also new end closure were replaced on the whole ridge. A cricket was added above a blower unit to redirect water.

CS 400 Series Process Fairfield, Ohio



This shows many new panels replaced. The seams were flashed with fibered flashing 50-60 mil thick and every screw checked to be tight or replaced and flashed.



The ridge to deck transition has been screwed down, then flashed with fibered flashant 40-50 mils thick and will be coated four times - this is a high stress area due to expansion & contraction.

CS 400 Series Process Fairfield, Ohio



Shows a closer view of the screws added and the transition flashed with fiber flashant 40-50 mils thick.



Shows a custom expansion joint bridge screwed down and sealed. Flashed with 40-50 mils of fiber flashant.

CS 400 Series Process Fairfield, Ohio



Shows spraying high solids silicone 22-30 dry mils evenly. We are capable of spraying 20,000-40,000 sq ft per day.



Shows 22,000 sq ft sprayed in 6 hours 25-30 dry mils.

CS 400 Series Process Fairfield, Ohio



This was a vibrating chute that was a leak problem from day 1. We built a curb around it and cricket above it. Then flashed it with a rubberize flashant made especially for movement. Then we added steel walk pads around for serviceability.



Our roofs have walk pads for serviceable units such as HVAC units and various other service needs. Steel walk pads span or bridge weak areas. Our grey walkways are 30-60 mils of silicone with aggregate for slip resist.

CS 400 Series Process Fairfield, Ohio



This customer had to be on the roof many times a year to cover ducts. We engineered a reinforced walkway system so seams and coating wouldn't get compromised. This also helped to keep the ribs from getting crimped by foot traffic.



25-30 dry mils completed. 15 year CSS labor warranty and "Lifetime" material warranty.

CS 401 Series Process Auto Center - Kentucky



Before picture of a Pittsburg lock flat panel roof. It has gas lines, vents, a/c units, pipes and wall flashing to address. We also replaced the bottom of a pan which had rotted through.



This shows the same metal screwed together and flashed with a fibered product, 30-40 mils thick.

CS 401 Series Process Auto Center - Kentucky



At CDR our process is to prohibit “water roll back.” We fill the rib ends and install a drip system and flash with 2 different products.



A typical pipe boot being flashed with fiberoptic flashant. 30-50 mils thick.

CS 401 Series Process Auto Center - Kentucky



Walkpads applied around all serviceable mechanical units to provide non-slip conditions on a working or traffic surface.



An overhead view of our project with the pipes and vents painted with duration satin paints. The roof has 23-28 dry mils of HS silicone.

CS 600 Series Process Kenton County Schools, Kentucky 104,000 square ft



A 20 year manufacturers backed warranty over Restoring badly aged modified Bit system. 52-60 dry mils

CS 200-X Series Process Wickliffe, Ohio



This TPO restoration was the worst membrane we have ever seen. Scrim only on the surface. We restored this roof with 40-60 dry mils of silicone and has been dry for 5 years.

Foam and Silicone Roof Technology

CS 500 Series Process Veneer Manufacturer - Fairfield, Ohio



Plates and fasteners are being applied to fiber boards over top of the metal roof deck. Bad deck panels are replaced as needed.



Our polyurethane spray foam robot is applying foam at an even 1.5" thickness across the roof which is 100% waterproof. This is creating a 100% seamless monolithic seal on the roof and an R-value of 20 with existing conditions.



Custom cant strip created with spray foam at parapet walls to divert water to drains.

Foam and Silicone Roof Technology

CS 500 Series Process Veneer Manufacturer - Fairfield, Ohio



100,000 sq/ft of 1.5" with .5" insulation board spray foam roof and granule top coated silicone complete.



Walkpads applied around all serviceable mechanical units to provide non-slip conditions on a working or traffic surface.



Granules are embedded in the top coat of silicone for toughness and durability.

CS 200 Series Process Columbus, Ohio (Assisted Living Complex)



CS 200 Series Process 40,000 sq ft

This job was an assisted living complex. Maintaining quiet and no disruptions to the residents was critical to the customer. A silicone roof system was the perfect option. This provided a 20 year warranty and a product with a 50 year material warranty. We felt that the job was done correctly and this restoration project should last 20-40 years.



This also was an economical choice as well. The cost was low enough that they were able to get two more small roofs repaired, compared to the membrane options.

CS 200 Series Process Columbus, Ohio (Office building)



EPDM roof with failing seams and cracking membrane throughout the field. A perfect candidate for a restoration system.



EPDM roof flashed and coated with high solids silicone at 2 gallons per 100 sq/ft for a 15-year manufacturer backed warranty.

CS 600 Series Process - Mod-Bit Dayton, Ohio 6,000 square feet



Mod-bit roof with punctures throughout the membrane for crews backing out of the roof deck due to expansion and contraction. All punctures were repaired and a stain blocker and silicone top coat were installed-eliminating expansion and contraction and creating a leak proof roof system.



System completed with 2.5 gallons per 100 sq/ft of coating for a 15-year warranty.

Silicone Repairs Tool Shop - Dayton, Ohio



CS 1200 - Repair Series

A four step process to repair seams on EPDM.



CS 1200 - Repair Series

A four step process to repair EPDM and a roof drain.



CS 1300 - Repair Series

To repair a through wall scupper, with fiber reinforced silicone on a flood coat roof.



CS 1300 - Repair Series

A 2 step process to repair cracks around pipe boots on a flood coat roof.

CS 1300 Series Process Gravel Bur Repair - Chicago, Illinois



Before picture of a gravel topped built-up roof.



Finished silicone repair process on a gravel built-up roof.

CS 1300 Series Process Gravel Bur Repair - Dayton, Ohio



In process of repair. Coating with 40-70 mils of HS silicone.



Final result of built-up roof repairs - Leak Free!

>> WE ENGINEER OUR OWN ROOF SYSTEMS <<
CUSTOMIZED TO YOUR REQUIREMENTS

Other Services

- Commercial Interior Spray Foam Solutions
- Versico TPO and EPDM Systems
- Custom Tapered Insulation Systems
- Polyurethane and Silicone Coating Systems
- Metal Roofing Systems - Standing Seam - Snap Lock
- Mechanically Fastened - Barrel Roofs
- Mod Bit and Torch Down Fully Adhered Systems
- Commercial Gutter Systems 5"-10" and Spouting
- Slate Roofs and Repairs
- Tile Roofs Systems - Book, Barrel, Etc.
- Box Gutters, Roof Well Systems
- Exterior Painting/Interior Painting
- Asphalt Shingle Roof Systems

CERTIFICATIONS FROM:



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