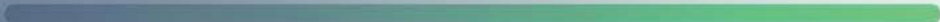


Qualifying Proof | SIMIX separates carbon dioxide

ACTIVE SURFACES, ACTIVE ROI

Transforming passive infrastructure into
measurable operational decarbonization.



PROTECTION

AIR QUALITY

ENERGY EFFICIENCY

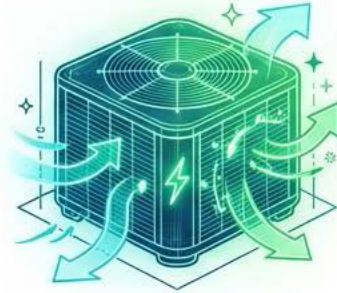
ASSET LIFE

Reduce Carbon at the Source



The Cost of Carbon Capture

- Focuses strictly on storing carbon after it's created.
- Capital-intensive with long, uncertain ROI horizons.



The Value of Avoided Carbon

- ✓ Stop creating unnecessary emissions at the source.
- ✓ Transform HVAC units, roofs, and walls into active, air-cleaning surfaces.
- ✓ Reduce energy consumption, extend asset life, and pay for themselves in months.

The Florida Observation



The Baseline Test

Same flower pots, same avocado seeds. One group watered with standard North Fort Myers city water.



The Catalyst Runoff

Captured water running off a Simix-treated roof, and condensation captured from an evaporator coil.



The Anomaly

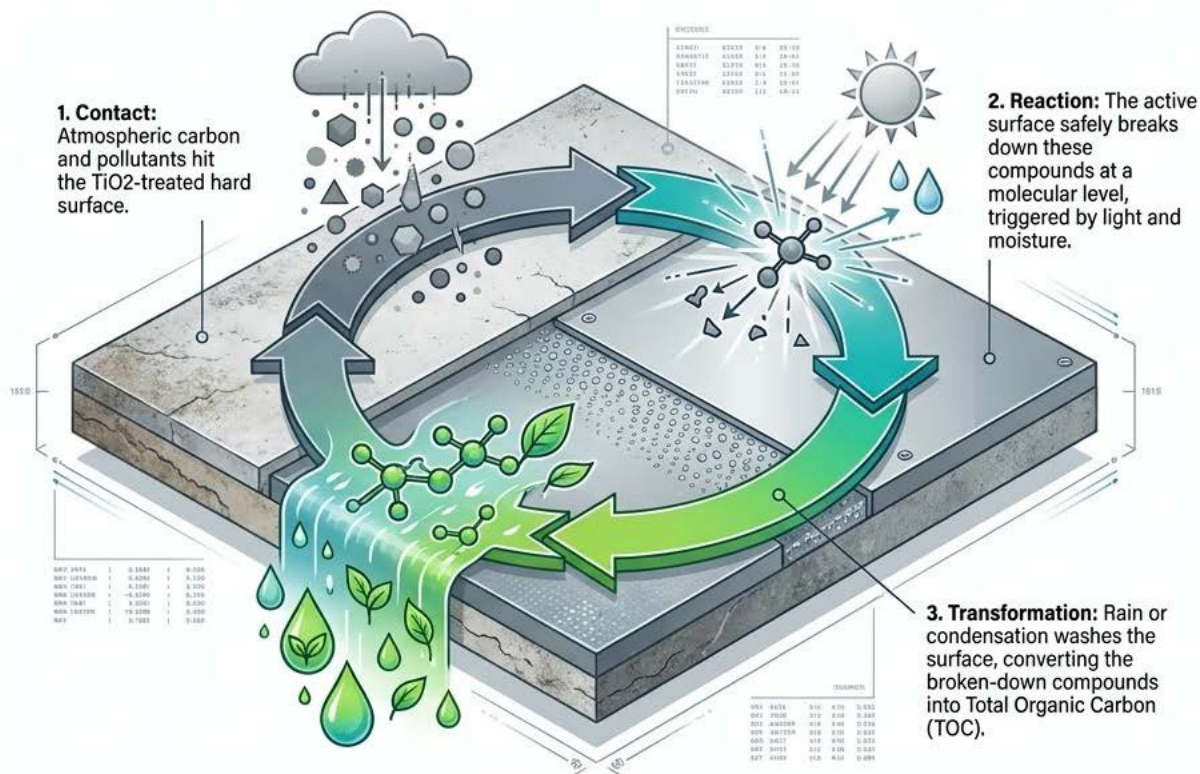
Seeds watered with runoff from the treated surfaces grew to literally double the height of the city-water plants.

The Hypothesis: What underlying biological mechanism was transforming architectural runoff into high-grade growth fuel?

The Atmospheric Detergent

Backed by over 200 clinical studies globally since Mitsubishi patented the Titanium Dioxide (TiO₂) reaction in 1967.

Known in
environmental
science as the
Environmental
White Knight



The 33-Day Isolation Test



Step 1: Establish Baseline

Identify untreated commercial roofs and standard, uncoated HVAC condenser units next door to treated equivalents.



Step 2: Apply & Isolate

Thoroughly clean the active condenser and add a fresh coat of our solution. Wait exactly 33 days.



Step 3: Controlled Extraction

Rinse coils and roofs strictly with Distilled Water to guarantee zero outside environmental contamination.



Step 4: Third-Party Verification

Send captured water samples to Pace Analytical Services to test for Total Organic Carbon (TOC).

Proven Organic Carbon Yield

The Roof Test

Untreated Roof: 0.67 mg/L

Treated Roof: 27.5 mg/L

~40x Increase

The HVAC Test

Uncoated Condenser: 5.2 mg/L

Treated Condenser (33-Days): 53.5 mg/L

~10x Increase

Evaporator Coil Output:
36.4 mg/L Total Organic Carbon



Fueling Biological Growth



Total Organic Carbon (TOC)
is the foundational fuel for
organic growth.

- It is a proven fact that when organic matter composts over time, it yields a small amount of Free Organic Carbon.
- It isn't the compost itself that fuels plant growth, but the Free Organic Carbon it releases.

Our TiO₂ coating turns passive buildings into active TOC generators. Rainwater runoff from a treated surface acts as a high-grade, naturally produced growth accelerant for the surrounding ecosystem.

Why TOC Matters



Atmospheric Scrubbing

The TiO₂ coating acts as a continuous environmental detergent, aggressively breaking down airborne pollutants that pass over the surface.



Carbon Separation

Carbon dioxide separates as it touches the surface. The CO₂ reacts when it touches the hydroxyl radicals.



The Ultimate Fertilizer

Free Organic Carbon—not compost itself, but the carbon it yields—is the fundamental building block that causes explosive plant growth.

Measurable Business Impact



Energy Efficiency

Reduce operational energy demand instantly by optimizing heat transfer on condenser and evaporator coils.



Asset Protection

Shield critical HVAC units, roofs, and walls from corrosion, extending the lifecycle of expensive capital expenditures.



Environmental Remediation

Transform static surfaces into active atmospheric detergents that safely break down pollutants and yield beneficial TOC.



Financial Return

Avoid unnecessary emissions and generate a measurable return on investment (ROI) within months, not years.

Unlocking the Value



Current State (Validated)

Independent labs have proven massive, unprecedented multipliers (10x–40x) in Total Organic Carbon concentration (mg/L) on both commercial roofs and HVAC systems.



Fund Quantative Testing

We require capital to translate these concentration metrics into absolute mass over area. We must define the exact weight of separated carbon per square meter.



Monetization per Sq. Meter

Establishing a certified, exact number for carbon separated per square meter unlocks lucrative carbon credits, massive ESG institutional funding, and enterprise-scale sales.