



Get Your Sustainability Accelerated™ Today!  
We have helped companies around the globe for over a decade.  
Award Winning, Mold Resistant, Energy Saving & Protective Coatings

## EnergyProtect™ HVAC COATING

**CLEAN AIR IS  
EVERYTHING  
IN THIS BUSINESS**

Mold Resistance  
Anti-Corrosion  
Thermal Insulating  
UV Resistance

[www.syneffex.com](http://www.syneffex.com)





Mold/Mildew Resistance

Corrosion Prevention

UV Resistance

## Multiple Benefits | For HVAC Systems

Do your customers have mold issues from contaminated fan coil units (FCU) or moldy fiberglass insulation in ducts? Are they looking for a simple, proven, sustainable, long lasting solution?

Mold spores traveling through the HVAC system into offices, condominiums, apartments, and commercial buildings can cause a huge health risk for the tenants and pose substantial legal risks for building owners, management and board members. Remediation of mold contaminated systems isn't easy, and once the mold goes from the air system to attach and grow inside walls, floors, and ceilings, the whole building is at risk.

### The Solution is Simple

Energy Protect™ is a revolutionary **clear protective coating that is water-based, non-toxic, and completely resistant to the growth of mold and mildew**. You simply paint the entire HVAC system, housing, fan coil units and ductwork, to keep mold away and provide clean air throughout the entire building.

But that's not all it does.

This **patented nano-engineered coating also prevents corrosion and is UV resistant**. Plus, ... **it's an insulation coating too!** No need to use fiberglass, a fibrous breeding ground for mold and moisture, to insulate the ductwork. Just three coats of Energy Protect™ provides significant thermal insulation and includes these other protective qualities too.





Energy Saving Insulation



Low VOC



Moisture Repellent

## Bold Plans | Bold Results

Coating HVAC units and ducts with Energy Protect™ clear protective coating is easy.

- ✓ Clean the surface and allow it to dry
- ✓ Paint on Energy Protect™ with a standard paint sprayer, brush, or roller
- ✓ You only need 2-coats for mold resistance/surface protection
- ✓ You only need 3-coats for excellent insulating value
- ✓ Keep mold out of your air system for as little as 52 cents US per S.F.

## Mold Just Won't Grow

Energy Protect™ coating is hydrophobic, meaning it repels water, so there is not enough moisture on or in the coating film for mold and mildew to grow. The mold resistance comes naturally, without the use of any dangerous biocides.



The uncoated panel is covered with mold growth.

ACTUAL PHOTOS FROM  
ASTM D5590 TESTING FOR  
RESISTANCE TO  
MOLD GROWTH



The Energy Protect™ coated panel has zero mold growth.

#### CERTIFICATIONS

ASTM D5590 (Mold/Algae Resistance)  
ASTM G21 (Fungi Resistance)  
Resistance to Geocapsa spp.(Black Mold Resistance)

ASTM E1530 (Thermal Conductivity)

Emissivity  
Permeability  
U/V Cabinet Testing

ASTM D-3359 (Adhesion)  
ASTM D-4541(Pull-Off Strength)

#### SPECIFICATIONS

Package Size  
Coverage  
Typical applied coat thickness  
Typical touch dry time for 1 coat  
Typical hard dry time  
Shelf life

Zero or minimal mold growth  
Zero or minimal mold growth  
No growth during 4-month accelerated testing  
30% decrease in thermal conductivity  
45% increase in thermal resistance  
0.91  
5 perms/inch @ 23 deg C.  
Passed 10 year equivalent, with no discoloration or loss of adhesion  
0% 5B, edges remain smooth, no flaking  
2400-2450 psi

1-gallon and 5-gallon  
225 S.F per gallon at 2-coats  
4 wet mils (100 microns) per coat  
20 minutes to 1 hour  
48-72 hours  
2 years, from date of manufacture



\*Testing by Anter Laboratories, Inc., a ISO 9001:2002 certified laboratory, according to specification ASTM E1530 for measurement of thermal conductivity.  
\*\*Testing by AIHA accredited laboratory, EMSL Analytical, Inc, according to specifications ASTM D5590 "Standard Test Method for Determining the Resistance of Paint Films and Related Coatings to Fungal Detachment by Accelerated Four-Week Agar Plate Assay" and ASTM G21 "Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi." Testing by FLDCH laboratory BCS Laboratories, Inc, according to four month accelerated study period for "Resistance to Geocapsa spp. on concrete tiles.

## Syneffex™ | Be A Sustainable Leader

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Syneffex™ develops and commercializes innovative applications for sustainability via the science of nanotechnology. Our patented product line is engineered to provide multiple benefits in a single product.

**We're Making a Difference. Daily.**



### Sustainable Awards

BUILDINGS Magazine  
Top 2012 Money Saving Product

BUILDERNews Magazine  
Best Product of 2008

QUALIFIED REMODELER Magazine  
A Top 100 Product of 2008

BUILDING PRODUCTS Magazine  
Top 100 Award for 2008

JOURNAL OF ARCHITECTURAL  
COATINGS Magazine  
Top Green Project Pick in 2009  
Suvarnabhumi International Airport