

CASE STUDY

Cornwell Quality Tools

Award Winning Energy Saving and Asset Protection Coatings



GEOGRAPHICAL AREA:

Mogadore, Ohio

ISSUE:

Need to lower energy costs and increase building energy efficiency.

SOLUTION:

Energy Protect™ Insulation Coating

Coverage: 3-coats

RESULTS:

- ✓ Project payback was estimated at less than 4 months.
- ✓ Provided a thin film insulation that can be applied over glass.
- ✓ Much less costly than replacing windows.
- ✓ Translucent coating allows for 90%-92% of visible light transmission while reducing heat transfer.
- ✓ Additional benefits: resistance to mold growth, moisture, and UV damage.
- ✓ Self-sustaining application, no maintenance needed.

Cornwell Quality Tools needed to improve energy efficiency at their Mogadore, Ohio manufacturing facility. Large factory windows created large 'holes' in their thermal envelope.

Energy Protect™ coating was used to insulate the windows. The application was done on windows where maintaining at least diffuse illumination from sunlight was a requirement along with thermal insulation.

Letter from Customer:

"Sirs, We at Cornwell Tools have been very pleased with the results of using the Synavax material as can be seen by the attached emails...

It's hard to quantify how much has been saved, but management has indicated over this winter so far we have saved approximately \$30,000 in total heating costs. Many factors are involved in this, as other changes were also made (in addition to using your coating) such as moving the use of the overhead door in the steel room to the smaller overhead door in the inspection area, and adding a plastic screen at that door. However I believe that a considerable savings has been realized. The cost of the (Synavax) materials was probably saved in the first cold month."

Daniel Goodell
Senior Tool Designer

Material cost for project: \$3,572
Customer Savings in Energy Cost: \$30,000
Payback: Over the first 4 months