

Case Study:

Home Depot, 5300 N Croatan Hwy, Kitty Hawk, NC 27949

The Home Depot in Kitty Hawk, NC is less than ¼ mile from the Atlantic oceanfront; subject to excessive salt-air corrosion, humidity, air-borne microbes and contaminants, and UV light.

Situation:

Condenser coils, evaporator coils, and exterior cabinets of 14 new rooftop air handlers were cleaned and coated with MicroGuard AD35 in August 2002. In the Spring of 2008, an older unit was replaced. Condenser coil and exterior cabinet was coated with MicroGuard AD35, but evaporator coil was not coated. A detailed assessment was conducted in August 2009.

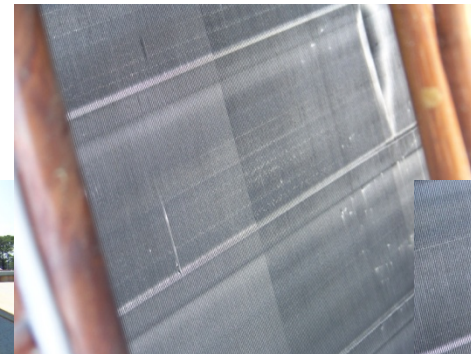
Result:

After 7 years, the windward (ocean facing) condenser fins were soft, but still serviceable, the leeward condenser fins were slightly firmer and interior condenser fins were very firm and in good to excellent condition. All copper tubing shiny. The evaporator fins and copper tubing were in excellent condition, firm and free of mold, mildew, and patina. Exterior cabinets had not faded and reflect minimal corrosion. On the 2 replacement units, the uncoated evaporator coils reflected build-up of mold/mildew and copper had patina.



Above: Ocean facing MicroGuard coated condensing fins after 7 years

Below: MicroGuard coated cabinet off ocean after 7 years



Above: MicroGuard coated evaporator coil after 7 years; no mold, mildew or patina!

Below: Uncoated evaporator coil after 18 months; mildew on fins, patina on copper

