

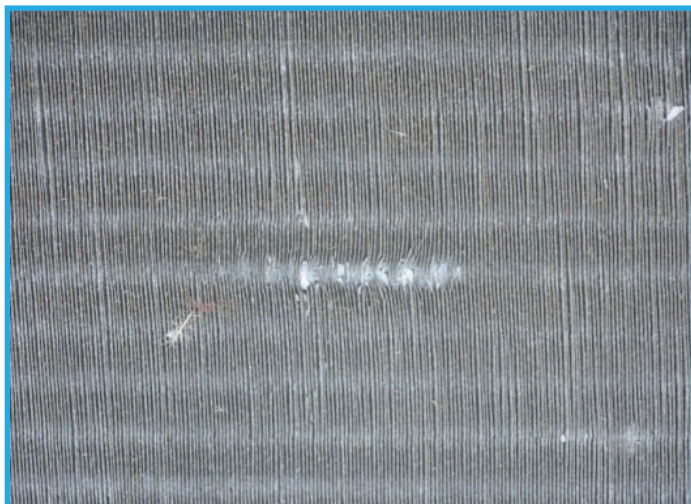
MICROGUARD[®]

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CASE STUDY: Home Depot — Kitty Hawk, North Carolina



MicroGuard[®] coated fins after 7 years



Uncoated coil after 18 months

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

Solution: 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. The condenser coil and exterior cabinet was coated with MicroGuard[®] AD35, but the evaporator coil was not coated. A detailed assessment was conducted in August 2009.

Results: 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 was 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 reflected minimal corrosion. On the two replacement units, the uncoated evaporator coils reflected build-up of mold/mildew and copper had patina.