

PROJECT:
HVAC Air Handling Systems

LOCATION:
Thousand Oaks, CA

OWNER:
Pharmaceutical Laboratory

APPLICATOR:
Poly Coatings Inc.

SYSTEM:
POLYSHIELD HT™ Polyurea
light grey, high pigmented, UV
resistant with AE-4
(adhesion enhancer)

TOTAL AREA:
29 air systems, 800 square feet
each of surface was prepared
and coated

COMPLETION DATE:
December 2004

PROBLEM:

The HVAC air handling systems at a major pharmaceutical laboratory were severely corroded and began to leak. The air handling units had previously been coated with epoxies and needed recoating, due to numerous failures.

SOLUTION:

The project owner decided to use SPI's Polyshield HT™ polyurea because of the product's water resistance and high elongation properties. Before the polyurea coating could be applied, the failed epoxy coating had to be removed, along with a great deal of rust and corrosion. Grinders were used to remove the epoxy coating and corrosion, and to provide an anchor profile for proper adhesion to the substrate. Polyshield HT™ with AE-4 (adhesion enhancer) was then spray applied at a

thickness of 60-80 mils. The product's rapid curing properties allowed the air handling units to be quickly returned to service.

RESULTS:

The project manager was pleased with the Polyshield HT™ polyurea coating, stating "the workmanship was excellent, and the timely completion of the work was critical to laboratory operations". Due to failing epoxy coatings, there are numerous additional applications at this facility, as well as other plant locations that are experiencing similar corrosion and leaking issues.

