

PROJECT:

Secondary Containment
for Hazardous Waste Drum
Storage Pads

LOCATION:

Newtown Square, PA

OWNER:

Lyondell Chemical

SYSTEM:

POLYSHIELD HT™ HP/UV
with AE-4 (adhesion enhancer)
in lieu of primer

TOTAL AREA:

26,000 square feet

COMPLETION DATE:

March 2000

PROBLEM:

Concrete storage pads with curbing (used to store hazardous waste drums) developed cracks throughout the surface. These cracks allowed water to contaminate the soil. The concrete pads were originally coated with a clear sealer that was failing.

SOLUTION:

The owner had previously used SPI's Polyshield SS™ 100 on another job with good results. This made it an easy decision to trust SPI's Polyshield HT™ high tensile strength polyurea coating to bridge the cracks in the concrete and seal any leaks.

The concrete surface was prepared using a high pressure water blaster (40,000 psi) to remove the failing sealer and to create a profile for optimizing adhesion. Polyshield HT™ with AE-4 (Adhesion Enhancing Formula) was

applied at 50 mils, eliminating the need for a primer. This was followed by an additional top coat of the polyurea into which a sand aggregate was broadcast in the coating to provide a skid resistant surface.

RESULTS:

The owner was extremely pleased with the results, and publicized the project throughout the company. Polyshield HT™ effectively sealed the concrete pads and prevented any ground contamination. The method used in this project was touted as the best system to repair and control concrete cracks at Lyondell facilities.



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