

PROJECT:

“The Atomic Train”
Low-Level Radiological
Waste Shipping Program

LOCATION:

Cincinnati, OH

OWNER:

United States Department
of Energy (DOE)

APPLICATOR:

Acme Fisher Tank Lining Company

SYSTEM:

POLYSHIELD HT™
with AE-4 (adhesion enhancer)

TOTAL AREA:

34 rail cars

COMPLETION DATE:

Spring/Summer 1999

PROBLEM:

The United States Department of Energy’s (DOE) Low Level Radiological Waste Shipping Program was looking for a protective coating to be applied on the interior holding area of their railcars, which are used for transporting waste. The ability to maintain abrasion resistance with excellent adhesion to the surface was imperative.

SOLUTION:

Polyshield HT™ with AE-4 (adhesion enhancer) was selected because of its high tensile strength and superior adhesion. Polyshield HT™ with AE-4 was applied at 60-80 mils directly over the properly prepared steel surface (3-mil anchor profile). Due to the tenacious bond achieved with the AE-4 additive,

(exceeds 1750 PSI in pull-off tests) no primers were required, saving time and money.

RESULTS:

The Department of Energy (DOE) Project Manager, John Hall writes, “SPI product has been successfully patched in the field by our project personnel using SPI patch kit materials.” A one-year Inspection was completed by John Hall. The material has proven durable over a complete weather cycle in southwest Ohio under an aggressive inspection and repair program.



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