

Case History:

Radisson Hotel: Nashville Airport April 2006

The Problem:

Existing roofing system was an 18 year old 24000 ft² PVC fully adhered membrane roof. The PVC was showing signs of weathering and needed some patching to stop leaks. There were also flat areas on the roof where ponded water would collect. Under new ownership and as part of the overall refurbishment of the hotel, it was decided to recoat the roof to extend the working life. The problem was finding a roofing system that would adhere to the PVC and that would also handle ponded water.

Under the direction of a Roofing Consultant, field trials were conducted to check adhesion of the X-Shield ProCoat. A comparative test was also carried out with a high grade Acrylic coating and primer system.



The Solution:

The X-Shield ProCoat was found to have tenacious adhesion to the PVC, far exceeding that of the Acrylic coating. Furthermore this adhesion was achieved without the use of a primer and the 24 mils thickness specified could be obtained in a single application.

After a successful field trial the following system was specified

Substrate Cleaner: X- Treat Substrate Cleaner (3 mils)

Roof Coating: X- Shield ProCoat (1.5 gals/sq)

- **X-Treat Substrate Cleaner** is a high powered biodegradable degreaser cleaner and rubber remover. .
- **X-Shield ProCoat** is a solar reflective white aliphatic single component amine triggered hybrid polyurea with exceptional adhesion. This product has an internal catalyst built into the polymer formulation.

Application:

X-Treat Substrate Cleaner was used to remove oil, grease, dirt, and other foreign contaminants. The product was dilute 1 part X-Treat Substrate Cleaner with 1 part water and applied by mist spray to the roof area at approximately 200ft²/gallon (5m²/L). The cleaner was allow to sit for 10 to 15 minutes for penetration and the rinsed off with clean water using a 1200 psi pressure washer. The surface was then allowed to dry.



X-Shield ProCoat was then applied over the entire pvc roof surface using a notched squeegee and roller to a total thickness of 24 wet mils (0.8mm), 1.5 gallons per 100ft² (0.8m²/L) minimum.

TOTAL THICKNESS:24 DRY MIL
10 YEAR NO LEAK WARRANTY