

The Pentagon – Case Study Roofing – Planter Boxes

Fast curing, impact resistant water containment system protecting substrates from damage.



CUSTOMER

The Pentagon
20,000 sq. ft over parking garages
Washington, DC
1999

PROJECT TEAM

EcoSeal – H.S. Peterson with Contractor.

PROJECT OVERVIEW

In 1999, U.S. Government contracted with one of our Distributors to install the ES 100 Waterproofing System on the roof of the Pentagon. The Pentagon houses the Department of Defense and is the largest office building in the world. The DC landmark was experiencing leaks into their parking garage from planter boxes on the roof. In this highly secure area, the speed of application and minimal time spent on site were highly valued by the customer. In one of the more demanding test ever asked of us, after installation of the membrane system, the planter boxes were filled with four (4) feet of water for 48 hours to demonstrate the effectiveness of the system. The weight and hydrostatic head resisted during the test period gave the DoD the peace of mind they desired. In the decade since the installation of the barrier system, there have been no leaks.

CONSIDERATIONS

Roofing/Waterproofing: The ES 100 Waterproofing System was utilized to eliminate the continuing problems associated with the leaking planter boxes over the parking garage. ES 100's elastomeric, adhesion, and hydrostatic resistance properties were ideal to protect the building's substrate and infrastructure from future water issues. The fact that the membrane forms instantly upon contact with the substrate, following all contours, is touch-dry in minutes and achieves complete chemical cure in 24 to 48 hours enabled the crew to be in and out quickly, and was another critical benefit from this system.

SYSTEM PRODUCTS

ES 100: Polymer-modified elastomeric system that is specifically formulated for long-term water barrier protection. ES 200 forms resilient, puncture-resistant, waterproof membrane on most any substrate.