

Case History #175

Project: The Lofts At Mercer Roof Decks | Macon, GA

Date: May 2017



NORTH AMERICA'S PREMIER WATERPROOF VINYL FLOORING SYSTEM SINCE 1974.



The Problem

When a large construction firm had the task of completing a 10,000 sq. ft. roof deck on the new construction of a college housing building, they contacted **Duradek of Georgia** who had helped them with a 2,000 sq. ft. roof deck a year earlier.

With construction underway, just 10 days before the planned Duradek installation, the building owner decided to go a different route with the waterproofing of the massive rooftop deck. The assembly was a solid base of $\frac{3}{4}$ " T&G plywood as the subbase, a $\frac{1}{2}$ " sound blocking product, and a 2" concrete surface. However, for the waterproofing component, they sealed the roof with a liquid coating which almost always fails without regular reapplication due to cracking.

Within two years, the property manager placed an urgent call for **Duradek of Georgia** to revisit the project. The roof deck was leaking into the floors below causing damage to the building.

Left unaddressed, this moisture damage issue was certain to cause even further costly repairs.

The Duradek Solution

After the property manager consulted with **Duradek of Georgia**, both parties agreed the first step was to prepare the roof deck surface for the Duradek membrane. This involved the labor intensive task of grinding off all of the failed liquid coating. Then surface leveling compounds were applied to ensure water was routed towards drains which were placed to meet the local building code requirements.

Once the surface was properly prepared, **Duradek Heritage Agate** with cool roof qualities was installed. Applied with adhesives and heat welded seams to fully join the 6 ft width of the vinyl sheets, Duradek provided a completely water-tight seal. The membrane was integrated into the building envelope by running the membrane a minimum of 8 inches up interior perimeter walls between the building paper and the cladding.

Overall, the installation took one week and the building owner was extremely happy with the results. To this day, the rooftop deck has not leaked and the property manager enjoys the peace of mind that comes with a reliable, low maintenance waterproof deck surface.

JOB CONTACT

Piedmont Construction Group
478-405-8907

APPLICATING CONTRACTOR
Duradek of Georgia

Norm Schafer
770-842-8218 | norm@duradekga.com



JOB NOTES

For highly used areas, shutting down access is a troublesome prospect. To properly maintain a liquid coating system they would have had regular access closures for application AND the drying time, both weather dependent. With Duradek™, the surface could be walked on as soon as it was installed and requires no reapplication.