

FleeceBACK[®] PVC
Roofing Systems

CASE STUDY

**Lexington Traditional Magnet School –
Science Wing**

JOB PROFILE

PROJECT ADDRESS:
350 N. Limestone, Lexington, KY

BUILDING USE:
Classroom

**NEW CONSTRUCTION
OR RE-ROOFING:**
Re-cover

SQUARE FOOTAGE:
2,500 square feet

PROJECT DURATION:
10/3/19 – 10/4/19

CONTRACTOR:
Pearce-Blackburn Roofing and
Sheet Metal

**CARLISLE
APPLICATOR SINCE:**
2004

ROOF SYSTEM:
Fully adhered 115-mil
FleeceBACK PVC, Flexible FAST™
Adhesive, CAV-GRIP® III, 6" PVC
Coverstrip, Water Cut-Off Mastic,
Termination Bar, and Lap Sealant



The Project

The existing roof was comprised of a 22-gauge steel deck, polyiso insulation, hardboard, base sheet, and an SBS cap sheet. Even though it was only about 13 years old, the Lexington Traditional Magnet School's roof had suffered from large blisters and leaks for several years. Also, most of the granules had de-laminated from the sheets.

The roof is about 2,500 square feet and is rectangular in shape. The existing build had tapered polyiso and saddles sloping to two different drains and two overflows. The only other penetration was a single plumbing stack.

The Problem

The Lexington Traditional Magnet School had been leaking for years and urgently needed to be replaced. However, the school has a tight yearly budget and couldn't afford the labor and materials necessary for tearing off the existing roof and starting from the deck up.

The Proposal

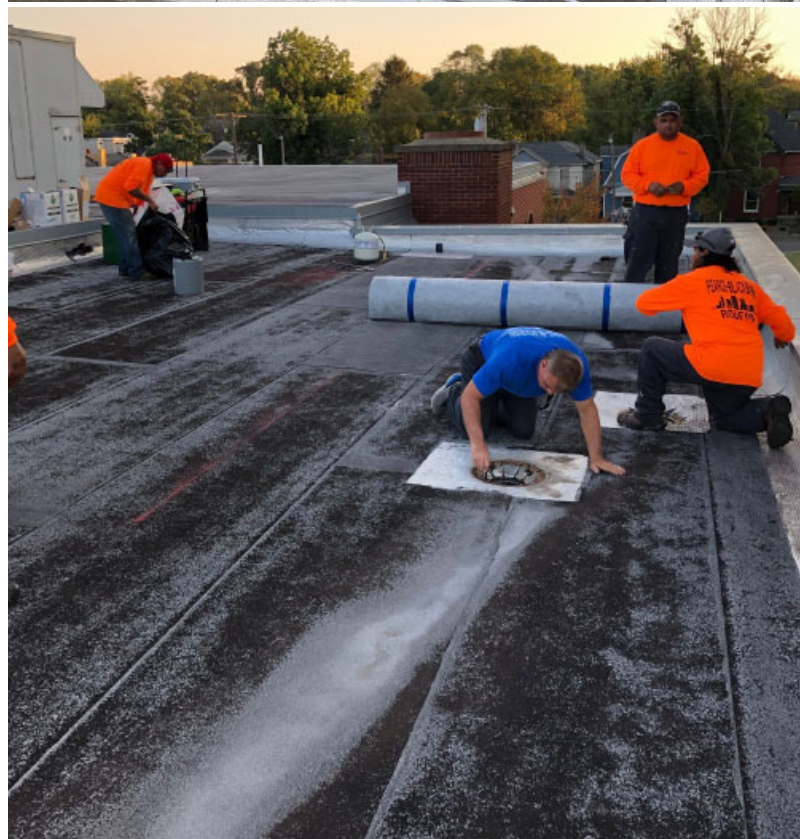
A fully adhered 115-mil-thick FleeceBACK PVC system was suggested for a couple of reasons.

Firstly, to address cost concerns; by using Flexible FAST low-rise foam adhesive, the FleeceBACK PVC could be adhered directly to the existing roof without the need for any tear-off or additional insulation and still receive a 20-year Total Roofing System Warranty.

Secondly, Pearce-Blackburn Roofing wanted to try out a single-ply membrane, as they have traditionally specified SBS and spray foam roofs. And finally, since this was a school project, the high puncture resistance of FleeceBACK PVC was an important characteristic which ultimately influenced their decision.

The Products

- » 115-mil FleeceBACK PVC
- » Flexible FAST Adhesive
- » CAV-GRIP III
- » 6" PVC Coverstrip
- » Water Cut-Off Mastic
- » Termination Bar
- » Lap Sealant



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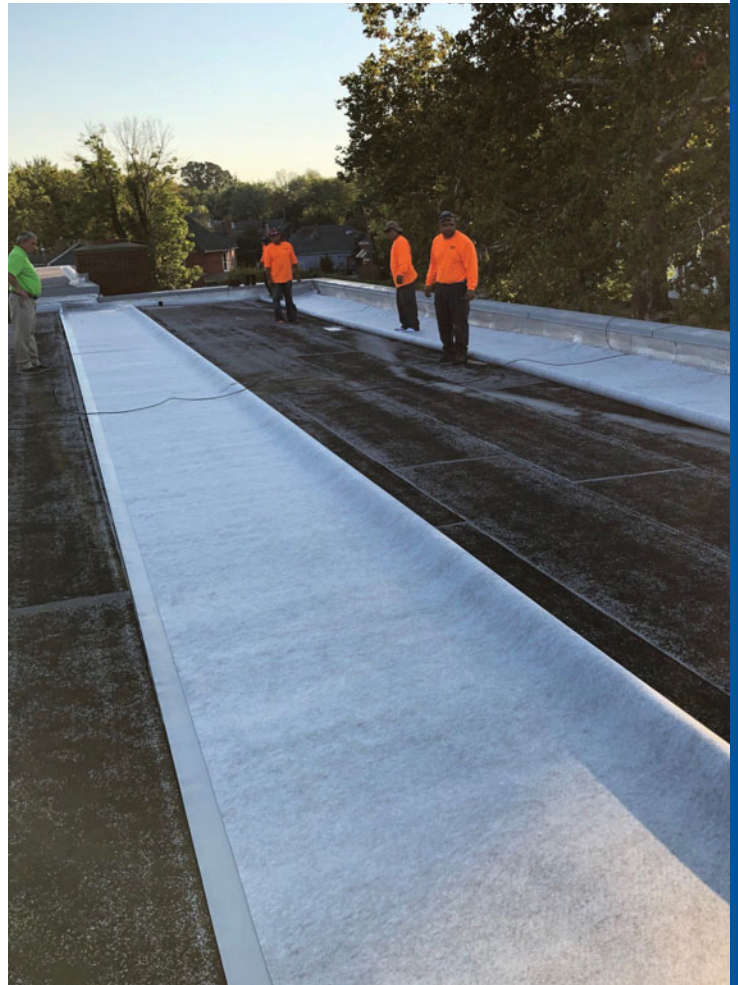
“...**FleeceBACK PVC** provides industry-leading toughness, durability, and **resistance to hail damage.**”

The Process

1. First, Pearce-Blackburn cut out and repaired any blisters and wet areas in the existing roof.
2. Then they swept and blew all debris and loose granules off the surface.
3. They laid out the rolls of membrane so they could relax the sheets to ensure less wrinkles.
4. After allowing the membrane time to relax, they folded the first sheet in half and applied Flexible FAST Adhesive in 4" beads to the existing SBS roof surface.
5. Once the FAST Adhesive set up, they folded the sheet back over the adhesive, broomed the membrane, then used a 150-pound segmented roller.
6. Finally, CAV-GRIP III was used to adhere the membrane to the two-foot parapets.

According to Pearce-Blackburn, the new roofing system was incredibly easy to install – they were only on the jobsite for two days. Because Flexible FAST sets up very quickly, there was hardly any waiting time. The roofers were able to keep working instead of pausing for flash off, which allowed them to complete more squares per hour than most other systems.

Another reason the project moved so quickly is because using this recover system, no tear-off was necessary. This allowed the school to save money on labor and material costs, while still receiving a 20-year Total Roofing System Warranty from Carlisle.



CASE STUDY



LEXINGTON TRADITIONAL MAGNET SCHOOL - LEXINGTON, KY

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