case study

Transforming Two Floors Of An Old Mill Into A Scientific Research Facility

Project Overview

Black Bear Coatings & Concrete was tasked with preparing existing foundations on multiple floors. In addition to surface renovation, a new solution needed to be engineered that would meet strict state and federal compliance.

The Process

STEP 1: Prep and stabilize existing sub-floor
STEP 2: Install 4-6 inch coves throughout
STEP 3: Combine flexible epoxy, Poly-Crete WR, non-shrink urethane mortar
STEP 4: Apply Elast-O-Coat double flake broadcast
STEP 5: Install epoxy grout coat
STEP 6: Use aliphatic urethane
STEP 7: Apply Armor Top

Project Details

Project Name – Biomere – 2 projects: 3rd & 5th Floors
General Contractor: Forever Mechanical
Type of Business – Pharmaceutical
Location – Worcester, Massachusetts
Size/Square Footage –21,100 sqft total
Timeframe – 10 days total (5 days per floor)
Products – Flexible Epoxy, Poly-Crete WR, Poly-Crete SL, Poly-Crete Shop Floor, Non-shrink Urethane Mortar, Elast-O-Coat, Aliphatic Urethane, Armor Top

Challenges

When renovating the older mill building to accommodate a new state-of-the-art pharmaceutical company, it was apparent that parts of the floor could not be salvaged. It was necessary for Forever Mechanical to screw the floor back into the sub-floor to stabilize it and ready the spaces for Black Bear's system. Black Bear's crew needed to patch all screws and repair and replace cove base.

Black Bear's Solution

With the 5th floor of the building in dire condition, Black Bear proposed a flexible membrane, Shop Floor, and 2,400 linear feet of custom cove to renovate the space. With both sections of the building, crews needed to demo the existing floor and stabilize the foundation before applying epoxy and urethane layers that would insulate and waterproof the floors to protect against bacterial growth.

about the client

Biomere is a preclinical contract research organization (CRO) that offers an extensive portfolio of preclinical research services from in vitro analyses, early discovery and proof-of-concept to discovery toxicology. Pathogen free since 1989, Biomere provides multiple levels of containment.