



Adhesion Testing & Flexible Coating Solution

Waterproofing Success at Lyne Labs – Brockton, MA

THE CHALLENGE: Stop water from penetrating into the building's interior through cracks in the mortar joints of the exterior block wall.

THE ALPHA SOLUTION: Adhesion testing using ASTM D 3359-02 Standard Test Methods for Measuring Adhesives by Tape Test, followed by the application of a flexible coating system to waterproof and provide an aesthetically pleasing exterior for the structure:

(Also refer to numbered photos below)

- 1) Exterior of block building with water penetration to the building interior through cracks in the mortar joints
- 2) Surface preparation tests using high pressure water
- 3) Sika representative performs adhesion tests using ASTM D 3359-02
- 4) Every crack was opened using the dry cut saw method to form a small working joint
- 5) Cracks were then sealed with Sikaflex 1A, a single-component polyurethane elastomeric sealant
- 6) All sealant joints were then hand-detailed with Sikagard 550W Elastocolor tint base to prevent the sealant from shadowing through the coating
- 7) After detailing the base coat, the top coat was applied using Sikagard 550W Elastocolor that had been tinted white
- 8) **The RESULT: A leak-free structure with a 5-year Sika warranty**

