



RHINO
CARBON FIBER
REINFORCEMENT PRODUCTS

CORNER WRAP CASE STUDY

BLOCK WALL CORNER REPAIR



LOCATION

Pittsburgh, Pennsylvania

CLIENT

Concrete Chiropractor

PRODUCTS USED

- Hydraulic Cement
- Rhino Carbon Fiber CFRP (Unidirectional, Horizontal): 400 GSM, 24" Wide
- Rhino Carbon Fiber CFRP (Bidirectional): 560 GSM, 12" Wide
- RCF Saturant-Adhesive Epoxy



CASE BACKGROUND

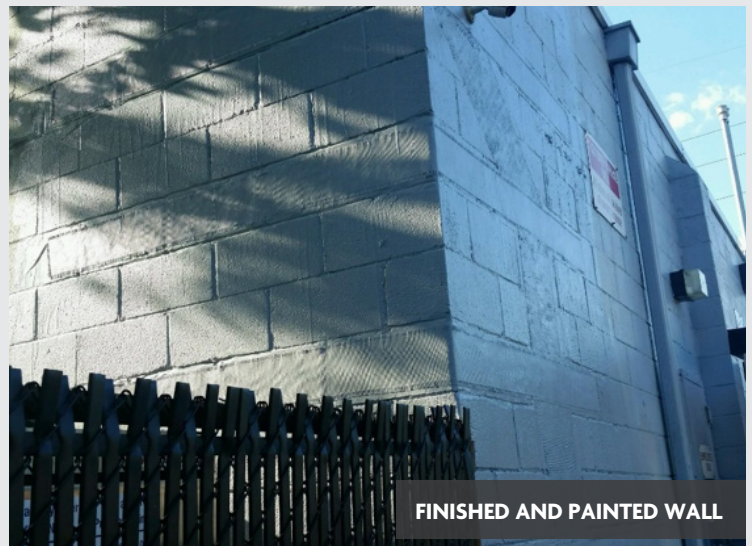
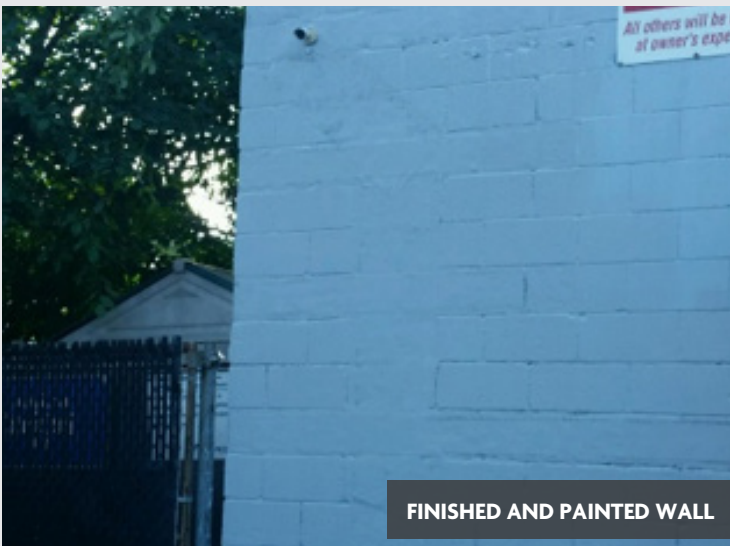
The exterior wall of a building in Pittsburgh, Pennsylvania was built using concrete blocks, and over time cracks started to form. Attempts had been made to repair the structure, but each time the cracks reopened and got worse. The Concrete Chiropractor, a concrete repair contractor, was called in to discuss repair options on the structure.



THE SOLUTION

The Concrete Chiropractor reviewed the project and their analysis determined that the best solution was to install 400 GSM, 24" wide **Rhino Carbon Fiber CFRP (Unidirectional, Horizontal)** over the crack and 560 GSM, 12" wide **Rhino Carbon Fiber CFRP (Bidirectional)** over the corner applied with **RCF Saturant-Adhesive Epoxy**. This solution was determined to be the best option because if slight movement in the block wall joints remained, CFRP would resist this movement and remain intact.

The block wall was prepped and all mortar joints were filled with hydraulic cement, then the CFRP was installed. The repair avoided using traditional methods that involve excavation and a large footprint, and the project was completed in a timely manner. High quality products from **Rhino Carbon Fiber** enabled the the Concrete Chiropractor to repair a problem crack that was holding up the sale of the property. Once repainted, the repair blended nicely, effectively restoring the aesthetic appeal and structural integrity of the building.



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