



**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.

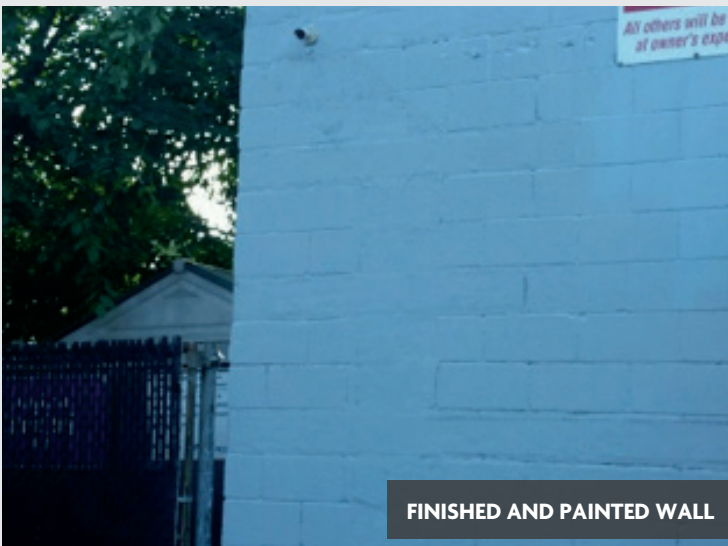
The block wall was prepped and all mortar joints were filled with hydraulic cement, then the CFRP was installed. The repair avoided using traditional methods that involve excavation and a large footprint, and the project was completed in a timely manner. High quality products from **Rhino Carbon Fiber™** 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.



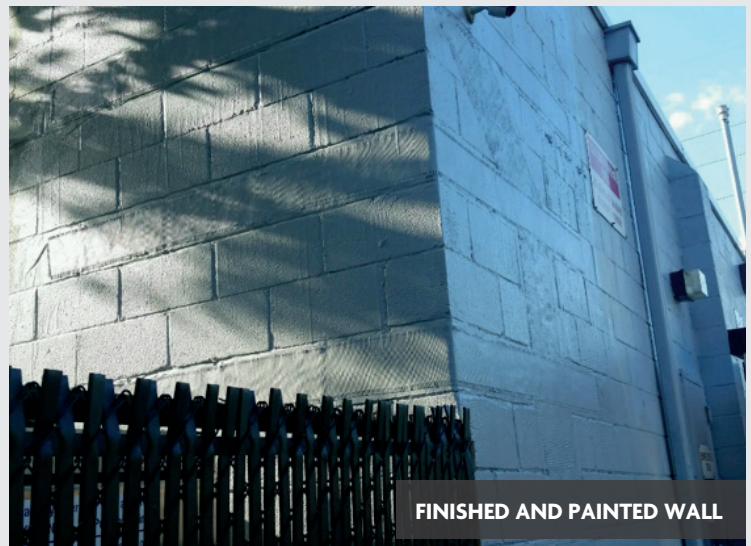
**BLOCK WALL CORNER CRACKS FILLED WITH HYDRAULIC CEMENT**



**RHINO CARBON FIBER™ CFRP (UNIDIRECTIONAL, HORIZONTAL) AND RHINO CARBON FIBER™ CFRP (BIDIRECTIONAL)**



**FINISHED AND PAINTED WALL**



**FINISHED AND PAINTED WALL**