



Manufacturers of Concrete Restoration & Protection Systems

Project: Bissell Point Wastewater Treatment Facility

Installation: 2010

Square Footage: 12,000

Location: St. Louis, MO

Materials: Strongcrete SW-88 Repair Mortar

Engineer: EDM Engineering

Contractor: Gerard Chimney

Sales Representative:

Shield Systems, Inc., Tom Suter, President

5205 Bischoff Ave. St. Louis, MO 63110

Office: 314-865-5550

Website: www.shieldsystems.com

Work is near completion on the masonry repair of the 225 foot tall chimney at the Metropolitan Sewer District Bissell Point plant in St. Louis, Missouri.

EDM Engineering was assigned the design task by MSD to develop a procedure for repair and protection of the badly spalled and deteriorated brick masonry smoke stack. EDM turned to Shield Systems, Inc. in St. Louis, MO for product recommendations. While Strongcrete is noted for great adhesion to concrete it was decided that adhesion test would be performed on the brick substrate prior to releasing the project for bid. Laboratory test proved the peel values to be in excess of 100 psi and therefore determined well suited for the massive repair project.

Gerard Chimney found the Strongcrete SW-88 to be very user friendly and improved production rates compared to other conventional repair mortars used by the contractor. In addition, core test were taken after placement of the structural repair mortar to verify the adhesion of the mortar. Once again, results were consistent with original lab tests as the pull values exceed 120 psi. Appearance of the structure was secondary to MSD as structural integrity remained the key objective of the "in use" smoke stack.

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