CRACK STITCH®

CRACK STITCH®
PROJECT SPOTLIGHT

REPAIRING CRACKS ON 1970's CONCRETE SLABS AT THE GAPVAX COMPANY HEADQUARTERS

WITH THE CRACK STITCH®

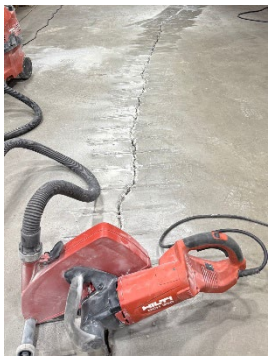


INTRODUCTION

GapVax is a leading manufacturer of advanced industrial vacuum trucks and sewer trucks, offering a comprehensive range of accessories, hoses, and replacement parts. Severe concrete cracking was occurring on the concrete slabs at their Johnstown, PA manufacturing facility and company headquarters.

THE PROBLEM

Concrete slabs at their facility placed in the 1970's were exhibiting cracking which was worsening. The Crack Stitch was installed to fully structurally repair these concrete cracks to prevent these slabs from having to be demolished and replaced. The Crack Stitch will serve to extend the life of these concrete slabs, preventing a manufacturing shut down from having to occur along with eliminating immediate slab replacement costs.











THE SOLUTION

The Crack Stitch was chosen on this project to repair these cracks, as it is the strongest and most robust concrete crack repair system available on the market to structurally repair cracks & prevent cracks from reopening. Upon reviewing the concrete slab depth (6 inches) and the severity of the cracking, it was determined that one Crack Stitch would be installed every 6 lineal inches in slots cut perpendicular to each individual crack being repaired with the Xtreme Epoxy 4070. The first phase of crack repair at this facility was completed in March of 2026 by Gary Weimer Contracting.

ABOUT THE CRACK STITCH

The Crack Stitch is a carbon-fiber & Kevlar stitch installed in tension with the crack (perpendicular) to fully repair and keep cracks from reopening in the future. The open grid design of the Crack Stitch allows the repair material used to form adhesive rivets throughout the entire stitch, much different than smooth materials used as concrete staples which allow "travel" to occur in the slot/channel. Each Crack Stitch has a design strength of 4,500 lbs. (tensile) and an ultimate strength of 6,600 lbs. (tensile) when ASTM tested. This stitch can be used to repair cracks in heavy commercial or industrial projects, along with secondary containment areas and other aggressive environments where concrete cracking is occurring.