



North Carolina Department of Transportation
Materials and Tests Unit – Product Evaluation Program
Innovative Technologies and Products Awareness Report
June 9th, 2021



PRODUCT HIGHLIGHT – Tiger Dam™ System



Tiger Dam™ protecting an electrical substation prior to flooding – image from U.S. Flood Control Website

The Tiger Dam™ System is manufactured by U.S. Flood Control Corporation out of Kenner, Louisiana. It is currently under evaluation and listed on the Approved Products List (APL) as NP21-8869. The Tiger Dam™ System is a reusable water-filled bladder technology (temporary barrier). Tiger Dams™ are designed to take any shape and multiple Tiger Dams™ can be joined for miles of seamless protection. Each Tiger Dam™ can take the place of approximately 500 sandbags in a flooding event and is reusable. They can also be deployed much more quickly than is required for a traditional sandbag solution. The product's stacked heights can vary from 18 to 42 inches, depending upon the solution needed. For more information, please visit <https://usfloodcontrol.com/>.



Tiger Dam™ protecting a Wal-Mart in North Carolina during a flood event – image from U.S. Flood Control Website

PRODUCT INNOVATION – Fortec 5680-BD Kevlar® Fiber



A roll of Fortec 5680-BD Kevlar® Fiber – images from Fortec Stabilization website

The Fortec 5680-BD Kevlar® Fiber is manufactured by Fortec Stabilization out of Holland, Michigan. It is currently listed as under evaluation on the APL as NP21-8846. The Fortec 5680-BD Kevlar® Fiber is an aramid fiber fabric system comprised of highly durable 5,680 denier Kevlar yarns, producing a superior and dense weave. The system is designed for heavy duty concrete crack repair, crack control, joint water-proofing, and structural strengthening of concrete and masonry structures where durability and protection of water intrusion is required. The 5680-BD Kevlar® Fiber is designed to be used with an approved epoxy resin to bond the Kevlar® fabric to the concrete/masonry structure. The fiber fabric is produced on rolls 8 inches wide and one mil thick. For more information, please visit:

<http://www.FortecStabilization.com>