The Challenge — A flood-prone area downstream of a small pond, privately owned but fed by city storm drains, whose only outlet was surface overflow through residential backyards, developed sinkholes with groundwater seepage and eventual pouring of water through pipe joints.

The Solution — Five Star® Poly Water Cut, a hydrophobic single-shot injection resin for water cut-off in concrete, masonry structures and sandy soils where strong seepage or gushing water is present was chosen for this repair job because of its fast acting water stop abilities and its harmless effect on the environment.

Ace Pipe Cleaning ground probed around the sink holes, through the yard, down to and beside the drainage area wall and into/below the basin of the drain. Subsurface chemical grouting, utilizing Five Star® Poly Water Cut effectively stabilized the soils under the sinkholes, sealed and filled voids around a previously tunneled drainage pipe under the drainage basin, and stabilized an area that has been a continual area of concern for the City.
PRODUCT DESCRIPTION

Five Star® Poly Water Cut is a solvent-free single component hydrophobic polyurethane water cut-off grout, specifically engineered for use in concrete or water bearing structures in sandy environments to stop gushing water or water seepage. It is formulated to react with water and form a rigid polyurethane foam that molds to substrate and stabilizes surrounding soil.

ADVANTAGES

• Adaptable cure time
• Rapid compressive strength gains
• Resistant to biological attack
• No shrinking or swelling
• No harsh solvent odor
• Reacts with water to form rigid polyurethane foam
• Solvent and phthalate free system

USES

• Stops water in rapid filling water bearing structures
• Injection resin for water cut-off in concrete and masonry
• Fill voids in cracks and joints
• Stabilize sand and soils
• Tunnel face securing
• Fill voids in rock fissures and gravel layers

FIVE STAR® SERVICES

• Design-A-Spec™ engineering specification assistance
• Technical on-call center with field and project experienced staff
• Field support representatives for on-site consultation
• Corporate research laboratory available to customize products for unique applications

For worldwide availability, additional product information and technical support, contact your local Five Star® licensee, distributor, local sales representative, or call the Five Star Products’ Engineering and Technical Service Center at 1-800-243-2206 (from the U.S.) or +1 203-336-7900 (outside the U.S.).

Five Star Products, Inc.
60 Parrott Drive • Shelton, CT 06484-4733 USA
Phone: +1 203-336-7900 • Fax: +1 203-336-7930
FiveStarProducts.com