



## ★ REVOLUTION GUNITE

**R**evolution Gunite provides services in the Southeast using the dry-mix shotcrete process for the swimming pool industry as well as for infrastructure and architectural work. Its current service area includes North Carolina, South Carolina, Virginia, West Virginia, and eastern Tennessee.

### HISTORY

Clearwater Construction Group, Inc., the parent company to Revolution Gunite, started in 1998 building water features, fountains, and stone masonry. Over the course of 21 years, Clearwater has delved deep into all things water, from earthen ponds to swimming pools and commercial water features. In addition, the company has excelled in hardscape and general construction specialties, such as unit paving, concrete installation, stone fabrication, brick and block masonry, and residential and commercial construction.

Since 2006, Clearwater has concentrated its efforts on swimming pool construction and design, self-performing most aspects of the swimming pool construction process.

Along the way, Revolution Gunite was born with an aim to serve other pool contractors by providing top-notch dry-mix shotcrete services for pool construction.

Today, the company is partitioned and structured as follows:

- Clearwater provides design for architectural and engineering firms, pool contractors, and owners;
- Revolution Gunite performs dry-mix shotcrete for pool contractors, DOTs, municipalities, and general construction; and

- Revolution Pool Finishes, Licensed Pebble Tec applicators for interior pool finishes, providing the Pebble Tec product line.

### PHILOSOPHY

The idea behind the “Revolution” is to bring an environment of change and integrity to the swimming pool industry with education and training with the end goal of better shotcrete placement. Never satisfied as pool contractors with the locally available shotcrete placement services, Revolution Gunite decided to use its industry knowledge and expertise to create a company that could satisfy the needs of the industry as well as raise the bar of quality. To do so, they employ a variety of techniques:

- Employ ACI-certified nozzlemen and nozzlemen-in-training;
- Continuous training of staff in the field as well as the classroom;
- Provide support to their builders with education opportunities and technical support;
- Use mobile volumetric batch trucks to allow for better metering of material for quality control and accurate placement quantities;
- Follow ACI guidelines for shotcrete placement; and
- Ongoing research and development to continuously improve placement techniques and mixture designs.

### MISSION

Through service, knowledge, and integrity, Revolution Gunite strives to create added value for every customer.



Fig. 1: Mountain pool in North Carolina: (a) before; and (b) after

## PROJECT HIGHLIGHTS

### North Carolina Mountain Pool—2015 ASA Outstanding Shotcrete Project Award

This project is a highly technical perimeter overflow and vanishing-edge pool, cantilevered 8 ft (2.4 m) and suspended 50 ft (15 m) over the ground below. The edge is within 1/32 in. (1 mm) level all the way around and is an all-glass tile pool.

### Bald Head Island

Using the dry-mix process allowed Revolution Gunite to serve a remote island resort with no bridges by transporting a portable cement silo, mobile batch trucks, cement tankers, and hundreds of tons of aggregates over barges in a narrow timeframe, dodging high winds and tidal shifts. This flexibility allowed Revolution Gunite to shoot three commercial pools in an extremely tight timeline to meet the pool contractor's and developer's deadlines.

### Swamp Thing

With a very tight timeline, Revolution Gunite was able to shoot the shell for an indoor swamp on a movie set in 9 days. The

project was over 18,000 ft<sup>2</sup> (1700 m<sup>2</sup>). The entire floor was shot without reinforcing steel to accommodate the transitional use of this space. Instead, natural jute fibers for shrinkage mitigation and improved curing were used. Artists were hired to carve the “mud banks” and color was added to the dry-mix shotcrete per request of the studio. The entire swamp is watertight and designed to be torn out after the production.

### Purlear Creek

With over 700 yd<sup>3</sup> (540 m<sup>3</sup>), this project highlights the use of jute and hemp natural microfibers, as well as a slag/portland blended cement to create the unique properties this project demanded. Hand-carved concrete by on-staff artisans emulates natural rock in this mountainous setting.



Fig. 2: Bald Head Island project: (a) transportation of Revolution Gunite's trucks, equipment, and materials; and (b) construction on the island



Fig. 3: Construction of an indoor swamp for a movie set



Fig. 4: Finished Purlear Creek project

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