



## The Crystal Group, Distributions, LLC

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### CHALLENGE

The Wildlife Conservation Society (WCS) at the **Bronx Zoo** in New York City, along with a team of technicians, WCS designers, staff and horticulture experts, created "Tiger Mountain". This state of the art facility will provide a close up view of the world's largest cats in a natural setting. Built on a three acre site within the zoo complex, the "Tiger Swimming Hole" consists of a man made stream using 10,000 gallons of recirculated water which includes an underwater glass viewing area.

During specification and construction it was recognized that a permanent waterproofing system was needed to keep the tigers safe from harmful chemicals without sacrificing design flexibility, long term durability and protection from corrosion of reinforcing steel.

### PERFORMANCE

The sculptured rocks and 10,000 gallon tank were made watertight by the sole use of Krystol Internal Membrane (KIM) in the concrete. The Krystol Waterstop System was used for all construction joints. These systems effectively eliminated the need for a surface membrane system that would break down over time. Architectural designers could also create concrete rock like structures that could be waterproofed.

The KIM waterproofing system is providing protection from leaking with the ability to seal minor cracking over the life of the structure.



#### OWNER

**Wildlife Conservation Society**

#### LOCATION

**Bronx, NY**

#### CONCRETE SUPPLIER

**Petrillo Ready-Mix suppliers**

#### GENERAL CONTRACTOR

**Coppola Paving & landscaping Corp.**

#### CONSTRUCTION MANAGEMENT

**Humphreys and Harding**

#### ARCHITECT

**Gary Smith**