

Pervious cellular concrete produced using our AQUAERiX™ product is environmentally safe, has no flash point, and supports sustainable development

AQUAERiX™ Pervious Applications

- ▶ Sports Fields & Golf Courses
- ▶ Self-Leveling fill
- ▶ Drainage Structures
- ▶ Scour Protection
- ▶ Tunnel Backfill
- ▶ Underground Tanks and Pipelines
- ▶ Soil Stabilization
- ▶ Permeable Roadbase
- ▶ Foundation Drains
- ▶ Gabion Retaining Systems
- ▶ Annular Backfill
- ▶ Load-Reducing Engineered Fill
- ▶ Water Retention
- ▶ Pipeline Beds
- ▶ Greenhouse Floors
- ▶ Fill for Abandoned Mines
- ▶ Impact Absorption
- ▶ Bridge Approach & Landslip Repair

PERVIOUS CELLULAR CONCRETE



The use of lightweight cellular concrete continues to increase worldwide. New products from Aerix Industries™ are helping to drive this powerful trend, including the introduction of AQUAERiX™, a patented synthetic foaming agent for production of pervious cellular lightweight concrete. (Patent No. US 8,172,937 B2)

AQUAERiX™ produces an engineered, permeable, open-cell, lightweight concrete, able to stabilize soil without disturbing or redirecting natural water flow. AQUAERiX™ pervious cellular lightweight concrete provides proven geotechnical solutions for applications requiring drainage capacities exceeding those obtainable from compacted soil or controlled low strength material (CLSM).

Engineered cement slurry mixes can range from 50 to 200 psi, with wet cast densities from 20 to 40 pcf. AQUAERiX™ is very durable, allowing the use of bottom ash in the mix design, which supports sustainable development and may increase the number of points awarded to a project under the LEED system. When site conditions or project schedules require faster set times, set accelerating admixtures, if approved by the Aerix team, can be incorporated into the mix.

Aerix Industries™
Advanced Engineered Foam Solutions



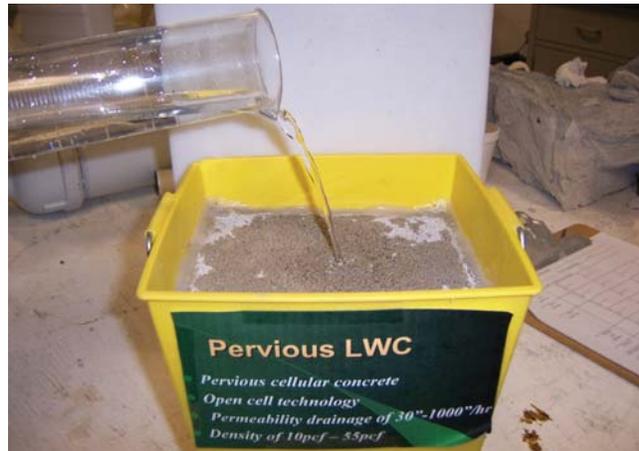
AQUAERiX™ is an advanced patented synthetic foaming agent that utilizes open-cell technology. The bubble coalesce creating a capillary structure allowing for water to pass through.
(Patent No. US 8,172,937 B2)

AQUAERiX™ pervious cellular lightweight concrete is environmentally safe and supports sustainable development through the LEED System

LEED CREDITS

Using AQUAERiX™ pervious cellular lightweight concrete can help increase the number of points awarded to a building under the LEED system. By allowing water to pass through and infiltrate, AQUAERiX™ P-CLWC helps reduce stormwater flow and site pollutant loads, which may contribute to LEED Credit SS 6.1 and SS 6.2. By helping to integrate paving and drainage, less site area may need to be used to manage stormwater, allowing a more compact site development footprint, which may contribute to LEED Credit SS 5.1 and SS 5.2. When incorporating fly ash in the mix design, AQUAERiX™ P-CLWC substitutes partially for cement, which may contribute to LEED Credit MR 4.

PERVIOUS CELLULAR CONCRETE



ENVIRONMENTAL PERFORMANCE ADVANTAGES

Testing by Middle Tennessee State University documents the ability of AQUAERiX™ pervious cellular lightweight concrete to enhance the environment by filtering contaminants that can adversely affect soil and water. Various chemicals and solids were placed on AQUAERiX™ P-CLWC and then rinsed with increasing amounts of water (0.5 inches to 30.0 inches) over a given surface area. Test results showed using AQUAERiX™ P-CLWC filtered 78% of the hydrocarbons and heavy metals. When the AQUAERiX™ P-CLWC was tested for oil retention, 97% of the oil was retained by the test specimen.



AQUAERiX™ P-CLWC was installed as a sub-base under the playing field at New York's Citi Field to facilitate drainage, replacing the 4 feet of lightweight aggregate listed in the original spec saving the owner time and cost.

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