

MEARL GEOFOAM®

Non Pervious

Cellular Concrete for Geotech Applications

Cellular Concrete Solutions® makes the task of adding long-lasting load reduction quick and easy with **Mearl Geofoam® Non Pervious** low density cellular concrete - an effective combination of our proven foaming agent and cement slurry. **Mearl Geofoam Non Pervious** cellular concrete reduces soil loading while increasing compressive and shear strength. It is an engineered geotechnical material containing uniformly distributed air voids. In its rigid form, it can be thought of as concrete having air as the aggregate. It's density can be varied from 20 to 120 lb./cu. ft. and its compressive strength from 20 to 3000 psi.

Mearl Geofoam Non Pervious can be used for replacement of unstable soils, density controlled load relief, void fills, behind retaining walls and similar Geotechnical applications. When used with the various types of foam generators, the result is a very compact self-contained precision foam system which may be integrated with solids metering feeders, slurry mixers and pumps to permit continuous discharge of foamed slurries through pipe or hose lines.

Mearl Geofoam Non Pervious Applications:

- Backfill (Annular Grout) for Tunnels, Water & Sewer Lines
- Tunnel Arch Backfills
- Tunnel Backfill & Annular Fills
- Soil Stabilization
- Fill Underground Tanks & Pipelines
- Fill for Abandoned Mines
- Mine Closures
- Tremie Applications
- Bridge Approach & Landslip Repair Fills
- Impact Absorption
- Retaining Wall Backfills

Features & Benefits:

- Lightweight
- Insulating; excellent freeze-thaw resistance
- High slump (virtually self-leveling); positive fill
- Rapid installation; can be placed by pump or gravity
- Long lasting & stable
- Load reducing engineered fill; replacement for unstable soils
- Absorbs shock waves
- Broad range of densities and compressive strengths
- Low water absorption and low permeability
- Reduces hydrostatic pressure on retaining walls

Performance Characteristics:

Aeration of aqueous suspensions of solids may be achieved either by blending a preformed foam with the cementitious slurry, or by adding a small amount of **Mearl Geofoam Non Pervious** directly to the slurry and then entraining air by high speed mixing.

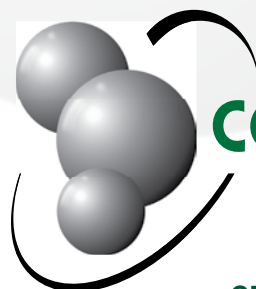
The preformed method generally provides better control of final product density and requires less foam liquid. Preformed foam is made in calibrated foam generating devices which control both the rate of production and the proportion of air and solution in the foam.

Stabilization of cellular structure in the slurry is accomplished by stiffening or gelation due to either a hydration reaction of part of the solids with water, by polymerization of other additives in the slurry or by some other reaction which sets the foamed slurry to a solid.

No harmful effect to the **Mearl Geofoam Non Pervious** is sustained by exposure to temperature extremes. It is completely stable to repeated freeze-thaw cycles and is readily restored to its original fluid condition by storing for a short period at ambient working temperatures.

Mearl Geofoam Non Pervious complies with the standard specifications of ASTM C 869 when tested in accordance with ASTM C 796.

Pervious Mearl Geofoam® also available



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SOLUTIONS

CELLULAR CONCRETE SOLUTIONS®

MEARLCRETE® DIVISION 7020 Snowdrift Road, Suite 102 ● Allentown, PA 18106
Tollfree: (888) 235-5015 ● Phone: (610) 398-7833 ● Fax: (610) 398-7050
www.cellular-concrete.com ● info@cellular-concrete.com

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