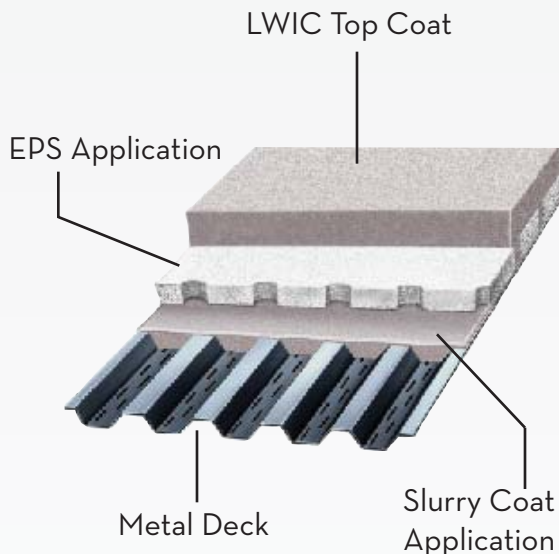


MEARLCRETE™ LWIC is installed by factory trained contractors who have specialized equipment and experienced personnel.

MEARLCRETE™ Lightweight Insulating Concrete Roof Decks

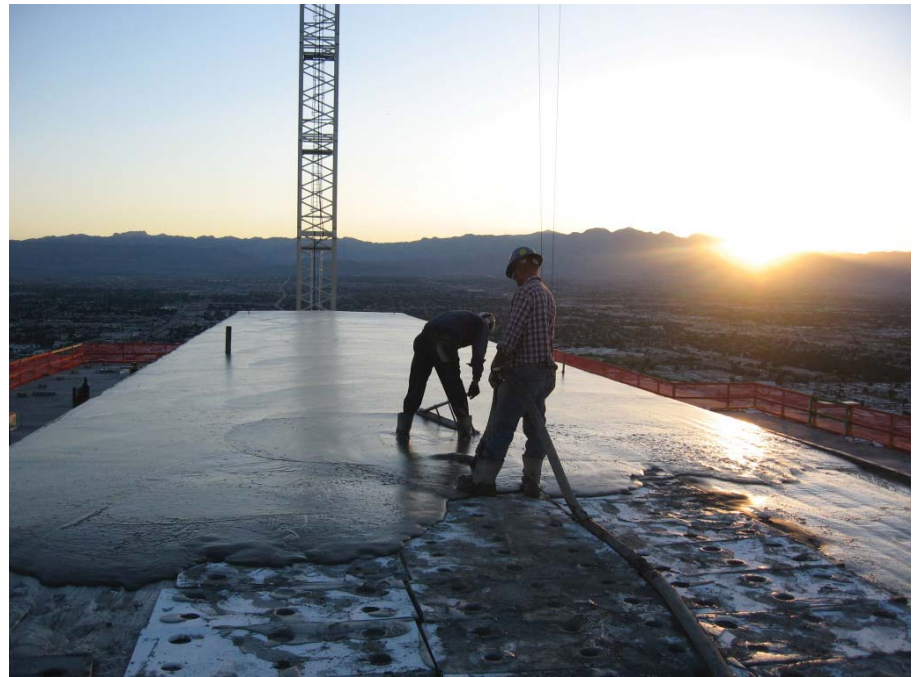
- ▶ Superior Wind Uplift
- ▶ Positive Drainage
- ▶ Sustainability
- ▶ Best Initial & Life Cycle Cost



Roof-topping Mixture
Fire Resistance Classification
See UL Fire Resistance Directory
60S1



Miami-Dade County
Product Control Approved



MEARLCRETE™ is a traditional protein based foam liquid concentrate. Lightweight insulating concrete (LWIC) using protein foaming agents has been around since the 1940's with a long track record of success in the roofing industry.

LWIC is produced on site by combining a cement slurry with preformed foam produced from MEARLCRETE™ foam liquid concentrate. Wet cast densities range from 20 pcf to 120 pcf reaching strengths of 20 psi to 3,000 psi.

MEARLCRETE™ LWIC can be applied over non-vented substrates including existing roof membranes, galvanized steel deck, precast concrete, or cast-in-place structural concrete. MEARLCRETE™ LWIC placed over a metal deck or concrete roof can be used to enhance the shear diaphragm providing additional resistance to shear forces resulting from wind or seismic activity.

MEARLCRETE™ insulating roof decks are superior to rigid board insulation systems. MEARLCRETE™ LWIC is not subject to thermal drift or thermal bridging. The insulating values and history of performance of a MEARLCRETE™ LWIC system provides unmatched life-cycle cost and performance. MEARLCRETE™ has excellent workability, able to be pumped over 500 ft vertically and over 1,000 ft horizontally.

Aerix Industries™
Advanced Engineered Foam Solutions



MEARLCRETE™ is ideal for building materials. The rigid bubble structure allows for compressive strengths up to 3,000 psi, with excellent insulation and sound deadening qualities



FLOORING APPLICATIONS

Lightweight insulating cellular concrete (LWIC) is used in flooring applications as an underlayment to wood joists, structural concrete, or galvanized metal deck substrate to decrease the overall deadload of the structural system. LWIC has excellent thermal conductivity acting as an insulator which promotes energy savings in the building envelope. LWIC is incombustible and holds a fire rating of 8 hours at an 8 inch thickness, yet is very workable and easily placed.



MANUFACTURING APPLICATIONS

Lightweight cellular concrete produced from MEARLCRETE™ foam liquid concentrate is ideal for manufacturing and building materials, such as precast blocks, wall panels and other structures. The rigid bubble structure of the protein formula is surrounded by a tough protein membrane which ensured stability during mixing and handling, and offers higher compressive strengths than hybrid or synthetic formulas, sanded mixes can offer double the compressive strength.

Lightweight insulating cellular concrete produced from the MEARLCRETE™ foaming agent offers water absorption of around 3%-7% and has excellent sound deadening qualities.



Aerix Industries™
Advanced Engineered Foam Solutions

