



T E C H N I C A L B U L L E T I N FA326

MEARLCRETE® FOAM LIQUID – PHYSICAL PROPERTIES

MEARLCRETE® FOAM LIQUID is an aqueous concentrate of a surface active Polypeptide-Alkylene polyol condensate, specially formulated to yield a tough, stable, voluminous microbubbled foam. The foam is used for producing cellular or foamed concrete and cement slurries used for thermal insulation, structural concrete, fills, soundproof floors, fireproofing and firewalls and precast products.

Aeration of aqueous suspensions of solids may be achieved either by blending of a preformed foam with the cementitious slurry, or by adding a small amount of MEARLCRETE FOAM LIQUID 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 to solution in the foam.

Stabilization of the 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 MEARLCRETE FOAM LIQUID 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.

MEARLCRETE FOAM LIQUID is compatible with many commonly used cement dispersants. However, since surface activity and foam stability may be seriously affected by the presence of other surfactants, they should be avoided unless specific compatibility has been verified by test.

MEARLCRETE FOAM LIQUID may be used in many types of foam generating devices. When used in either continuous or batch type Cellular Concrete 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.

Specifications:

Appearance	Dark brown liquid
Active Ingredients	Approximately 30%
Ph	6.0 to 7.5
Viscosity (700F)	5 centistokes minimum
Solubility	Completely soluble in water, suitable for use in hard or soft waters.
Shelf Life	Almost indefinite in original sealed containers.

Packaging:

	5-gallon plasticans	55-gallon poly drums
Gross weight	52 lbs.	562 lbs.
Net weight	49 lbs.	537 lbs.

FA326-0501