

MaxFlow

CELLULAR CONCRETE

for GEOTECHNICAL APPLICATIONS



PRODUCT DESCRIPTION:

MaxFlow Cellular Concrete is a low-density cementitious fill that uses **MaxFlow Foaming Agent** as the means for providing a stable and uniform air cell structure within the fill. **MaxFlow Foaming Agent** concentrate is diluted with water and charged into a foam generator for use as a pre-formed foam additive in **MaxFlow Cellular Concrete** mix designs. Often, the air content introduced by the pre-formed foam is designed to be the primary volume occupying mix component. Accordingly, ultra-light mix designs can be achieved. Chapter 8 of ACI 229R-99 on LD-CLSM (Low Density-Controlled Low Strength Materials) and ACI 523R-1 "Guide for Cast-In-Place Cellular Concrete" may serve as valuable sources of reference.

ADVANTAGES:

MaxFlow Cellular Concrete should be considered for use when any of the following characteristics would benefit your application:

- *Low in-service unit weight*
- *Low permeability*
- *Rapid freeze and thaw durability*
- *Strength control*
- *Dimensional stability*
- *Flowable*
- *Pumpable*
- *Mineral admixture compatibility*
- *Insulating value*
- *Economical*

MATERIAL APPLICATIONS:

MaxFlow Cellular Concrete can be designed for use in the following applications:

Backfilling: Utility cuts, trenches, abandoned underground pipes, culverts, tanks, mines, sewers, voids under roadways, concrete slabs, structures, backfilling around foundations and retaining walls.

Structural: Low-density mats, pipe bedding, road base, bridge approaches, foundation

sub-base, floor slab sub-base, liner base, cover mats.

Speciality: Insulating fills, fire resistant applications, shock attenuation and isolation applications, sound attenuation applications.

PRODUCT INFORMATION:

MaxFlow Foaming Agent is available as a concentrated liquid which is charged into a foam generator and diluted with water. This foam solution is expanded into a pre-formed foam. For most applications, dilution ratios of (1) part **MaxFlow Foaming Agent** to (40) parts of water are used to achieve desirable results. **MaxFlow Cellular Concrete** typically uses portland cement meeting ASTM C 150 as the primary binder component. Other cementitious binders such as slag cement or Class C fly ash may be used with pretesting. Standard mineral admixtures meeting ASTM C 618 and/or sand meeting ASTM C 33 may also be used in **MaxFlow Cellular Concrete** mix designs. Nonstandard mineral filler materials such as fly ash not meeting ASTM C 618 may be used when pretested.

CAUTIONS:

Always wear proper eye protection as splash possibility exists. Not to be consumed internally. Wash from skin using soap and water. MSDS available upon request by contacting:

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