



Virginia Ready-Mixed Concrete Association

Flowable Fill

Ready Mixed Flowable Fill Or Controlled Low Strength Material

Ready-mixed flowable fill is commonly a blend of cement, fly ash, sand, and water. Typically it is designed as a low strength, flowable material requiring no subsequent vibration or tamping to achieve 100% consolidation.

In addition to flowable fill, CLSM is commonly referred to by a wide variety of other names, including controlled density fill, unshrinkable fill, flowcrete, liquid dirt, fly ash slurry, flowable mortar, plastic soil cement, and many other trademark names.

No matter what you call it, flowable fill is the backfill material that out performs any comparative backfill material.

Here's why:

- **Self Compacting & Self Leveling** - Unlike traditional granular fill, flowable fill can be placed without the assistance of backhoes, loaders, compacting equipment, such as rollers and compactors, as well as the additional operating personnel.
- **Versatile** - Flowable fills versatility offers numerous advantageous in design and difficult placement conditions. Flowable fill mixtures can be designed to meet a wide variety project specific performance conditions including strength, set time, unit weight, excavatability, flowability, and thermal properties.
- **Readily Available** - Utilizing by products of power plants that burn coal to generate electricity, local ready mixed concrete producers can manufacture and transport flowable fill meeting project specifications.

Common Applications:

- Backfill
- Sewer trenches
- Utility trenches
- Building excavations
- Bridge abutments
- Conduit trenches
- Structural Fill

- Road base
- Mud jacking
- Sub footing
- Floor slab base
- Pipe bedding

Other Uses:

- Underground storage tanks
- Slope stabilization
- Soil erosion control
- Mud mats
- Abandoned sewers