

MaxCell Liquid Mortar

*...fills the void between
soil and concrete.*



What is MaxCell?

A specialized, controlled low-strength material (CLSM), MaxCell solves the quality, compacting, and safety problems of backfill and structural fill. Project owners, specifiers, producers, and contractors alike benefit from the value-added features of MaxCell flowable fill for any subsurface void. When quality is critical or when an inert filler is required, MaxCell saves money, reduces job times, and provides more benefits than any other fill material or construction method.

An essential ingredient of MaxCell CLSM is Nycon's proprietary liquid foaming agent. It reacts quickly with mortars at lower temperatures with less water, and in pouches tough enough to withstand transit—all of which produces a superior fill material with a long service life and low in-place costs.

Where is MaxCell used?

- Bedding for pipe, electrical, telephone, and other conduits
- Soil erosion and embankment protection
- Retaining walls
- Mud slabs for non-uniform subgrades under footings, pavements, and slabs
- Abandoned tunnel shafts, sewers, basements, underground structures, mines
- Sink holes
- Remote placement for radiation protection at nuclear facilities
- Hydrology culverts for bridge rehabilitation

Why should I use MaxCell?

- **Readily Available** – MaxCell fill is producible by any ready-mixer using local materials and natural resources.
- **Easy to Deliver** – Mixed at the job-site, MaxCell eliminates storage problems and excess fill.
- **Strong and Durable** – With compressive strengths up to 300 psi, MaxCell is an erosion-resistant, uniform fill. Unlike conventional CLSM, MaxCell's high air content requires 50% less water and will not shrink.
- **Saves on Excavation Costs** – MaxCell requires no compacting equipment, so narrower trenches can be used. Ideal for tight or restricted-access areas, it can also be color-coded to identify utility conduits.
- **Cuts Labor Cost** – MaxCell requires smaller crew sizes and significantly shortens time to completion.
- **Easy to Place** – It can be placed by chute, conveyor, pump or bucket, over long distances, or in lifts where hydrostatic forces or buoyancy may float pipes.
- **Will Not Settle** – Unlike soil and granular fill, MaxCell is shrink-resistant, does not form voids or settle under load after hardening.
- **Requires Less Inspection** – There's no guesswork with MaxCell. It performs consistently and does not require extensive field testing.
- **Eliminates Complicated Formwork** – MaxCell is held in place by simple forming barriers or earth dams.
- **Eliminates Compacting** – Most of the labor required to finish the fill process is unnecessary. There is no need for ditch loaders, rollers, or compacters at the job site.
- **Excavatable** – Easily rippable with a backhoe, MaxCell provides ready access for repairs and maintenance.
- **Fast Return to Service** – MaxCell reduces traffic congestion because it places quickly, fills voids instantly, and supports traffic loads within hours.
- **Allows All-Weather Construction** – MaxCell displaces standing water from rain or snow in trenches, eliminating the need for dewatering pumps.
- **Improves Worker Safety** – Self-leveling and self-compacting, MaxCell keeps crews out of dangerous trenches because it flows into and fills voids easily.
- **Environmentally Friendly** – The mix makes use of fly ash, a by-product of power plants that burn coal for electricity.

What is in the MaxCell mix?

There are certain properties usually associated with MaxCell flowable fill. To obtain these characteristics, it is important to have the right mix of ingredients in the right amounts. The formula varies with changes in materials and environment and typically includes cement, coal fly ash, sand, water, and Nycon's foaming agent. The foaming agent increases the volume of the mix as much as 30% to produce a slurry-like flowable material. For structural fill, MaxCell can be designed to achieve compressive strengths as high as 1200 psi. Nycon's engineers are available to assist you with mix designs customized to your needs.

In addition to MaxCell flowable mortar, Nycon provides total solutions for fiber-reinforced concrete. We offer a complete line of reinforcing fibers, including nylon, polypropylene, macro, steel, and synthetic/steel blended fibers. We also provide engineering support for the design, specification, and production of Nycon-modified concrete.

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