



"Providing sound solutions is the foundation of our business".

**Shotcrete**

Shotcrete, sometimes called sprayed concrete or mortar, is concrete which has been conveyed through a hose and nozzle and pneumatically projected at high velocity onto a surface.



Shotcrete (approx. 400 cu. yards) utilized on retention pond for South Canyon Landfill. --- Glenwood Springs, CO



Permanent shotcrete wall (soil nailed wall) for basement addition. --- Aspen, CO



Onsite batching for shotcrete relining of railroad tunnel. --- Moab, UT

**Features and benefits:**

Shotcrete has high strength, durability, low permeability, excellent bond and limitless shape possibilities.

**Features and benefits:**

**Sculpted Walls**



MCSI also offers sculpted soil nail or anchored walls made with shotcrete, staining, and integral color additives.



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## Shotcrete

### Other additional benefits to using shotcrete includes:

- Little or no formwork is required
- Cost effective method for placing concrete
- Ideal for irregular surface applications
- Allows for easier material handling in area with difficult access
- It is flexible and easy to install
- Uses space more efficiently by allowing vertical excavation of alternated panels, creating stable vertical walls very close to other buildings
- Saves money-can concrete right over the shotcrete
- Can be more economical than other systems because of the ability to build maximum dimensions of the property and use the excavation as the form system.

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## Sculpted Walls

Sculptured or carved shotcrete has many advantages for permanent walls, landscape features, and water features.

It can be cost effective, be installed to add aesthetics to excavated walls for highways, residential construction, commercial retaining walls, and private roadway excavation.

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Related technologies utilized with Shotcrete and sculpted walls may include: soil nails, soil anchors and rock anchors.

**M**CSI is qualified and/or certified in the installation of these materials and systems (this is a partial list)

- 3M
- Atlas Systems
- Avanti International
- Cellular Concrete LLC (CLSM)
- Con-Tech Systems, Inc.-  
Ischebeck/Titan
- Dayton Superior
- DeNeef
- Dex-o-tex
- Dow Corning
- Dwyidag-Systems International (DSI)
- Earth Contact Products (ECP)
- Euclid
- General Polymers
- Green Mountain
- L.M. Scofield
- Maccaferri
- Master Builders
- Prime Resins
- Quickrete
- Sika
- Sivento
- Sonneborn
- Strata-Tech, Inc.
- Super-Krete
- TenCate (geo-synthetics)
- Tremco/Vulkum
- USG Levelrock
- Williams Form Engineering
- Xypex



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