

Application-Specific Concrete

Slabs with Moisture-Sensitive Coatings or Flooring

Overview

ARIDUS[®] Concrete, developed by our parent company, U.S. Concrete, is a scientifically engineered rapid-drying concrete that eliminates the need for alternative moisture mitigation methods. Each mix is designed to meet the moisture and scheduling needs of a project with economical and aggressive performance options.

Applications

ARIDUS[®] Rapid Drying Concrete is ideal for any project utilizing adhered flooring, and, in particular, projects with a compacted schedule. Common applications include: schools, medical facilities, data centers and mixed-use developments.

Benefits

- Accelerated reduction of internal relative humidity of slab is faster compared to conventional concrete mixes.
- Robust performance when slab is rewetted during or after construction.
- Reduces the risk of detrimental and potentially hazardous flooring failures (mold, bubbling, mildew, alkali/pH issues, etc.).
- Prevents future need for moisture mitigation treatments and floor repairs and replacements.



- Engineered design results in high-performance concrete (properties exhibiting high early strength, low shrinkage, low curl, and excellent floor flatness).
- Backed with a 10-year warranty against flooring failures caused by moisture from the concrete. Compatibility with floor manufacturer warranties that require achievement of a reduced relative humidity value before flooring can be installed.

Engineered Fill

Overview

Our Site Fill[™] is designed to meet the need for flowable fill, controlled density fill, controlled low strength materials, non-shrink backfill, slurry and trench fill.

Applications

Site Fill's designed proportions make this product line the choice material for all types of fill applications, including fast-set fill when paving immediately after consolidation is necessary, when excavatable backfill is necessary, and use in congested and restricted-access areas.

Benefits

- Superior control. Provides flowable fill, controlled density fill, controlled low strength materials, slurry and trench fill.
- One solution. The solution for all your placement concerns from self-leveling to dry pack, non-flowing materials.
- ▶ More efficient. Ideal for use in congested and restricted-access



areas, eliminating the need for compacted soil or conventional backfill.

 Practical. The low-compressive strength of 50-300 psi is ideal when excavatable backfill is necessary.

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Deep Foundations

Overview

Deep foundations are structural elements that transfer loads through weak, compressible soils to underlying competent soils or rock. Specifically, these elements support new or existing structures and/or compressive, tensile, static, seismic, lateral loads. Typical construction techniques include auger cast piles, drilled shafts, driven piles, and micro piles.

Applications

Common applications include marine/harbor works, roads, bridges, buildings, storage tanks, retaining walls.

Benefits

 Our use of supplementary cementitious materials (SCMs) to reduce the cement content reduces permeability, improves durability and reduces global warming potential of the concrete mix.



Specifically designed for adequate spread, setting time, resistance to segregation and extended workability.

Concrete Pavement

Overview

Concrete pavements are concrete layers that are directly in contact with traffic and are used for a multitude of purposes and applications. Contact us to discuss concrete pavement design options for your projects.

Applications

Common applications include airport runways, highways, streets, highway bridges, parking lots, Caltrans projects, and overlays of asphalt.

Benefits

► Concrete vs. asphalt: Higher point-load capacity, withstands diesel spillage and other aggressive materials, ability to be used when sub-grade strength is poor, resists high temperatures, higher solar reflectance, reduced maintenance and associated costs, long lasting service life, construction of new concrete pavement section requires less off-haul.



Achievement of specified modulus of rupture (flexural strength) in addition to compressive strenath.

Questions? We are ready to help.

Contact your Account Manager or **Regional Project Manager** www.centralconcrete.com www.rightawayredymix.com





Ask us about these other concrete solutions:

- Performance-Based Concrete
- Sustainable Concrete Solutions
- Placement-Specific Concrete н.
- Architectural Concrete