



## Description

Latitude is a performance-based system designed to reduce construction and contraction joints in interior slabs-on-ground. Latitude incorporates:

- Proper subgrade and base preparation
- The use of polyethylene sheets (slip sheets)
- Proper detailing at reentrant corners, penetrations and around columns
- Project specific performance-based mix design
- Proper slab curing and protection

## Applications

Typical applications include, but are not limited to, the following:

- Commercial and residential interior slabs-on-ground
- Industrial warehouses
- Agricultural structures
- High impact/tipping slabs

# LATITUDE<sup>®</sup>

## Performance Slab Solutions

### Features

Cemstone's Latitude Performance-Based Slab Solutions is a system of material and installation procedures designed to reduce the number of joints for interior slab-on-ground applications. The Latitude system is designed specifically for each interior project with a machine hard-troweled finish. All Latitude slabs incorporate Resolve, Cemstone's Fiber Reinforcement Matrix. Depending upon the project requirements, Cemstone's Engineering Services will select the most appropriate fiber based on performance and economics. Latitude incorporates the latest in design and installation recommendations from the American Concrete Institute's (ACI) industry recommendations for slab-on-ground construction. Latitude slabs feature the following:

### Benefits

- Interior applications
- Greatly reduces the number of construction and contraction joints
- Elimination of temperature and shrinkage reinforcing steel
- Increased impact resistance
- Reduction in slab curling
- Increased durability
- Reduction in construction time, materials and labor
- Increased load-carrying capacity of the slab
- Can be ground and polished

### Installation Requirements

- The subgrade or base layer shall be proof-rolled to a minimum of 95 percent of the modified Proctor density for the material in accordance with ASTM D1557, at a moisture content within  $\pm 2$  percent of optimum moisture.
- For interior applications, install two layers of 6-mil (0.15-mm, minimum) plastic (polyethylene) sheeting over the proof-rolled subgrade or base layer prior to concrete placement to minimize friction and restraint.
- Begin curing immediately after finishing concrete in accordance with ACI 308.1, by one or a combination of the following methods; moist curing, moisture-retaining-cover or curing compound. The specific method of curing may be dictated depending upon the desired joint spacing.
- Contact your local Cemstone Representative or Engineer for the complete Latitude installation requirements.

### Limited Warranty Notice

THE USE OF LATITUDE, WHEN PROPERLY PLACED, FINISHED AND CURED WILL REDUCE THE OCCURRENCE OF CRACKS DUE TO DRYING SHRINKAGE. CEMSTONE MAKES NO OTHER WARRANTIES OR GUARANTEES, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR THE INTENDED PURPOSE. THE USE OF CEMSTONE'S LATITUDE CONCRETE MIXTURE IS SUBJECT TO CEMSTONE'S GENERAL SERVICES AGREEMENT (GSA) AND THE GENERAL TERMS AND CONDITIONS WITHIN THE LATITUDE DISCLAIMER. BOTH DOCUMENTS ARE AVAILABLE UPON REQUEST.