



# Fast Stone<sup>®</sup> Cement System

Fast Setting Cement and Processing Equipment

## Fast Stone<sup>®</sup> Cement System

Ball Consulting, Ltd. is pleased to bring to the precast and GFRC industry the Fast Stone<sup>®</sup> Cement product line of fast setting hydraulic cement blends and the equipment to handle and process these materials at very high rates. Processing equipment requires a very low investment cost.

### Features

- Application focused blends to solve market or customer specific problems
  - White or grey Portland cement based formulas.
  - Option to fiber reinforce with various lengths and percentages of NEG AR glass fibers for flexural and impact strength.
  - Fast Stone<sup>®</sup> Cement blends can be pigmented with dry or liquid iron oxide pigments to achieve a range of cast colors.
- Formulations can include VCAS white, recycled glass pozzolan addition for improved strength and mix rheology. Blends containing VCAS have between 10 and 19% of this post industrial waste.
- Fast Stone LT<sup>®</sup> formulas have between 14 and 22% expanded, recycled glass beads.
- Fast Stone LT<sup>®</sup> cement blends are able to achieve cast densities in the 65 pcf range.
- Fast Stone<sup>®</sup> Cement formulas can be supplied in bags or super sacks.
- Typical Fast Stone<sup>®</sup> Cement blends have demolding times of between 1 and 2 hours.
- Fast Stone<sup>®</sup> Cement blends incorporate 3 to 28% of CSA cement as a replacement for Type I Portland cement. The production of CSA cements generates the lowest carbon emissions of any cement.

In order to capitalize on the fast setting properties of the Fast Stone<sup>®</sup> Cement blends, Ball Consulting, Ltd. has worked very closely with Rimcraft Technologies to develop the RimCaster Continuous Mixer (CM) to handle blends containing fiber, pigments and polymer so that tight mixing tolerances can be maintained.

- Typical slurry processing volumes for the RimCaster CM are in the 100 to 140 pounds per minute range
  - All models have a variable speed controller to adjust the output speed of the dry blend to the mix chamber. There is approximately a 25% variability in the output range.
  - Additional volume adjustments can be made very simply by changing the dry feed augers and bushings in the standard housing. There are 3 auger sizes available.
- The newly designed RimCaster CM allows for easy access to both the back of the dry hopper and wet mixing chamber for fast clean-up.
  - Clean-up of the wet mixing chamber is normally 5 to 10 minutes.
- The dry hopper on the RimCaster CM can be bag fed manually or paired with a ground feed hopper that will feed super sacks of material to the dry hopper at a rate matching the CM usage.

[www.Ball-Consulting-Ltd.com](http://www.Ball-Consulting-Ltd.com)

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