Mix Team Rules

- MTDS and MSDS forms for EVERYTHING involved in canoe
- Prohibited
  - Prepackaged concrete, mortar, or grout
  - Bondo, Epoxy or other similar products
  - Epoxy resins, their curing agents, their curing against, asphalt emulsions, or similar materials
- Must submit technical information to the CNCCC via email for any reactive aggregates
- Materials
  - Hydraulic Cement to meet requirements for ASTM C 150, ASTM C 595, or ASTM C 1157
  - Fly Ash shall meet requirements for ASTM C 618, Class C or Class F, except loss on ignition shall not exceed 3%
  - Metakaolin shall meet requirements for ASTM C 618, Class N
  - Slag Cement shall meet requirements for ASTM C 989, Grade 100 minimum
  - Silica Fume shall meet requirements for ASTM C 1240
  - Minimum of 2 sustainable materials in mixture
    - Only one of the sustainable materials can be glass microspheres
    - Each sustainable material must constitute at least 25% of aggregate by weight
      - Multiple sources of glass microspheres can be considered one material
  - Fibers shall meet the requirements of ASTM C 1116
  - Water-reducing and Set-Controlling admixtures shall meet requirements of ASTM C 494
  - Air entraining admixtures shall meet requirements for ASTM C 260
  - Coloring admixtures/stains shall meet requirements for ASTM C 979
  - Polymer Modifier shall be latex or re-dispersible powder formulated for use with hydraulic cements and meet requirements for ASTM C 1438
  - Specialty admixtures require pre-approval by CNCCC
- Minimum of hydraulic cement should fall between 30% and 50% by mass
  - Shall not exceed more than 400lb/yd3
- Aggregates shall make up at least 25% of total weight
- Solids content of latex and liquid dyes, if used are to be accounted for in the unit weight of the concrete mixture
- Wet density shall be between 55 and 70 lb/ft3
- Liquid membrane forming compounds shall meet ASTM C 309 or ATM C 1315 and stated as such in the product sheet.
  - If ASTM 309, it should be Type 1 or Type 1-D, Class A with a max VOC of 350g/L
  - If ASTM 1315, must be Type 1, Class A or Class B, with a max VOC of 350g/L
  - Limited to an application of 2 coats