BACKGROUND / REQUIREMENT

• Incorporation of gums and polymers without agglomerates or “fisheyes”
• Fine dispersing of pigments in re-circulation loop with kettle
• Setting of final, high viscosity water/silicone emulsion with a single pass prior to packaging
• Quick and easy cleaning

QUADRO’S APPROACH

• ZC3 in line disperser, skid mounted with a dual PD pump arrangement for performance with high viscosities and high solids addition rates
• Automated powder-in-hopper detection and valve actuation
• Controls to allow (4) pre-set operating points
  • Single pass solids incorporation, water feed
  • Solids incorporation, re-circulation set-up with kettle
  • Final emulsion setting from kettle
  • Operator PID backpressure control of discharge pump for additional flexibility in processing

QUADRO Ytron ZC Powder Disperser

ADVANTAGES

• 80% reduction in overall batch time vs. conventional in-tank multi-shaft mixer processing
• Rapid incorporation & dispersion of solids
• Single pass emulsifying
• Significantly reduced air entrainment
• Elimination of quality problems associated with cross batch contamination
• No excessive dusting from bag dumping into process vessels
• No solids build-up on process vessel walls
• Clean-in-place
• Elimination of multiple in-tank specialty mixers