

# Quadro Ytron®

## COSMETIC LIQUID FOUNDATION MANUFACTURING

### 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

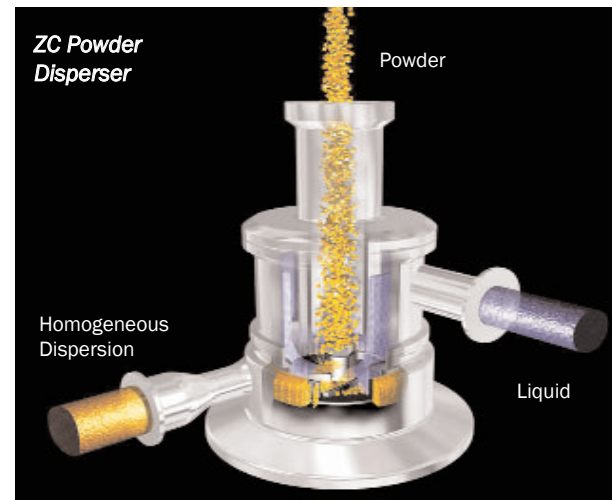
- ZC3 in line disperser, skid mounted with a dual PD pump arrangement for performance with high viscosities and high solids addition rates
- Automated powder-in-hopper detection and valve actuation
- Controls to allow (4) pre-set operating points
  - Single pass solids incorporation, water feed
  - Solids 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



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