

CASE STUDY - Chematic[®] 630 + 25 SPF SUNSCREEN CLEANING



CURRENT CLEANING METHOD

Traditional cleaning procedure uses a high amount of water, multi-step cleaning with highly alkaline & acidic detergents to remove product & pigment haze by soaking+scrubbing

Disadvantages of using this method

- High cleaning downtime, **low productivity**
- **Safety risk** for manual cleaning
- Possibility of **microbial contamination** with manual cleaning
- Effective CIP/WIP cleaning is not possible as residue comes out as pigment **haze** remains



EQUIPMENT WITH RESIDUE CONTAINING HIGH AMOUNT OF TITANIUM DIOXIDE

CHEMATIC[®] SOLUTIONS & RESULTS

Cleaning with Chematic[®] is easy without the need for scrubbing. The formulation and haze are cleaned chemically with the combination of recommended detergents

Advantages of using Chematic[®]

- Low cleaning downtime, **high productivity**
- **Safe** for manual cleaning
- **Lowers** the possibility of **microbial contamination** by eliminating manual step
- Effective CIP/WIP cleaning is possible as the formulation is designed to tackle haze



CLEANED WITH REGULAR ALKALINE DETERGENT. MANUAL SCRUBBING NEEDED TO CLEAN HAZE



EQUIPMENT CLEANED WITH CHEMATIC WITHOUT THE NEED OF MANUAL STEP

DATA	Stand Alone CIP with In-Line Homogenizer
Vessel Size	500-gallon stainless steel vessel
Type of Cleaning	Vessel with CIP Capabilities
Sprayballs	Retrofit to tank's existing ports
Homogenizer	In-Tank
Volume of Detergent Solution Used	250 Gallons (enough water to cover homogenizer and mix blades)
Recommended Detergent Usage	3% Chematic 25 = 7.5 gallons + 3% Chematic 1 or 630 = 7.5 gallons
Cleaning Hours Original Process	7-24 hours
Cleaning Hours New Process	3.5 hours

CHEMATIC[®] CLEANER ADVANTAGE

Easy and faster cleaning

Substantial Reduction in total cleaning time of upto **85%**

Increased production capacity by decrease in downtime

Eliminated manual scrubbing

Robust Cleaning with hard water

Decrease in cleaning water consumption by reducing cleaning steps

