

# CASE STUDY - Chematic® 429 ETHYL CELLULOSE CLEANING



## CURRENT CLEANING METHOD

Traditional cleaning procedure uses water, solvents, or highly alkaline detergents to clean Ethyl Cellulose by soaking and Scrubbing

### Disadvantages of using this method

- High cleaning downtime, **low productivity** for manual cleaning
- **Safety risk** for manual cleaning
- Validated cleaning time is **tough to achieve**
- Effective CIP/WIP cleaning is not possible as residue comes out as flakes and can block perforations or redeposit in CIP/WIP circuit

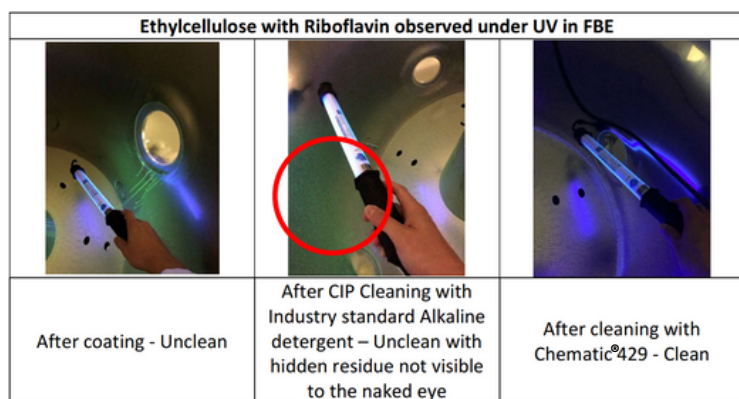
## CHEMATIC® SOLUTIONS & RESULTS

Cleaning with Chematic® is easy without the need for scrubbing, by chemically stripping the polymer formulation film residue

### Advantages of using Chematic®

- Low cleaning downtime, **high productivity** for manual cleaning
- **Safe** for manual cleaning
- **Validated** cleaning time can be achieved
- Effective CIP/WIP cleaning is possible as the residue breaks down and is suspended in the detergent solution without redepositing in CIP/WIP circuit

	PROBLEM	GOAL	RESULT
TIME	4 - 18 hours manual cleaning, variable cleaning times	Reduce cleaning time	2 - 4 hours (based on equipment size & cleaning process)
ACTION	Manual scrub application causing equipment damage. Multiple re-cleaning required	Eliminate/Minimize scrubbing Decrease manual labor	No manual scrubbing needed if CIP/WIP available No requirement of Re-cleaning
CHEMISTRY	High alkaline liquid detergent or solvents to dissolve and remove polymer formulation	Safer Chemistry Cleaning Single detergent option to clean polymer & Pigment	Chematic® 429 eliminated need for multiple detergents
TEMPERATURE	80°-85 C detergent temperature not suitable for manual cleaning	Decrease in temperature	Works at lower temperatures (40°C-60°C)



## CHEMATIC CLEANER ADVANTAGE

- Easy and faster cleaning
- Substantial Reduction in total cleaning time upto **75%**
- Increased production capacity by decrease in downtime
- Minimized manual scrubbing of the equipment, filter bag & manufacturing area
- Robust Cleaning with hard water
- Single detergent cleaning

Dober partners with IMCD India a leading global chemical distributor for the supply of Chematic Brand detergents