

Waterbased Coating – Bulk-Tank Disinfecting

Scope

- A bulk tank coating storage and supply system used for waterbased coating can become contaminated with microbial growth which needs to be cleaned/disinfected.
- If the coating storage/supply system is contaminated, all coating that is supplied from the system is at risk for becoming infected which can result in a spread of microbial contamination throughout the coating supply network and press coating/supply equipment.
- Regular maintenance of the coating storage/supply system is recommended to clean/disinfect the coating storage bulk tank and all parts of the coating supply network.

Waterbased Coating – Bulk-Tank Disinfecting Procedure

Disinfecting Chemicals

Disinfecting Chemicals

- Troy Guard CB08
- Troy Guard CM 1.5

* Prior to performing the procedure below, completely read and understand the Troy Chemical Corporation TDS and MSDS/SDS for the specific product. Follow and use the recommended handling and safety procedures outlined in the Troy Chemical Corporation product documentation.

- Chemicals can be acquired by contacting:
Troy Chemical Corporation
8 Vreeland Road, Florham Park NJ 07932
973-443-4200
www.troycorp.com

Disinfecting Procedure

- 1) Drain as much coating as possible from the bulk storage tank.
- 2) Flush the bulk tank and press supply lines with water to purge residual coating from the system – inspect the inside of the bulk tank and observe any coating sediment/build-up along the bottom and inner-walls.
- 3) Partially fill the bulk tank with water to ~80% capacity – partial fill is recommended as most bulk tank contamination occurs in product heels near the bottom of the tank. If coating product sediment/build-up is observed on the inner tank walls above the waterline when filled to ~80% capacity, completely fill the tank with water to ensure that a complete de-contamination of the tank is achieved. Once the bulk tank has been filled with water, calculate the amount of water that the bulk tank contains, and add **Troy Guard CB08** at a rate of 0.4% by weight of water contained in the tank.
- 4) Allow the decontamination mixture to agitate for 1-2 hours, then empty the tank. If the supply lines have been determined to be contaminated, circulate the **Troy Guard CB08** treated water through the coating supply network and press supply lines to clean/disinfect – this may require dispensing the decontamination mixture at the individual press supply ‘drops’.
- 5) If sediment was observed on the inside of the bulk tank along the bottom and inner walls during step 2, re-inspect these areas to ensure the sediment has been removed. If sediment remains inside the bulk tank, repeat steps 3-4 to ensure sufficient cleaning of the tank and system. **Troy Guard CB08** dissipates quickly and will not be present in the disposal – wastewater from the cleaning procedure can be flushed to the sewer.
- 6) Following cleaning the bulk tank, rinse the inside tank walls with a water solution containing 0.15% **Troy Guard CM 1.5**, using enough solution to fill the tank to ~25% capacity. Allow the solution to remain in the tank overnight, then drain the tank using a slow flow rate – draining the tank completely could take 1-2 hours. It is recommended to clean/disinfect or replace press-side coating drums/sumps during the same time as bulk tank cleaning/disinfecting. Once the procedure has been completed, the bulk tank can be filled with coating and resumed for use.