



TECHNICAL C&A INFORMATION

Waterbased Coating - Wet State Odor v1.1

Coatings and Adhesives Corporation formulates and manufactures all waterbased coating products using materials and conditioned/treated water sources to aid in the prevention of microbial growth during long-term storage. In circumstances where microbial growth does occur resulting in wet-state discoloration and odor, contamination by a polluted outside water source, other pressroom chemistries or an infected coating system is typically the direct cause. In this case, a dark discoloration may result on the coating surface in the storage container along with a pungent/foul odor.

Waterbased Coating Contamination Source

Conditional changes for discoloration and odor can be attributed to:

- Coating dilution using an untreated water source
- Coating circuit microbial growth/infection
- Coating system cleaning/wash-up container/source microbial growth/infection
- Coating system cleaning/wash-up using an untreated water source
- Coating contamination by other pressroom chemicals

Waterbased Coating Contamination Prevention

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| Water Source | The use of a treated/conditioned water source for waterbased coating cleaning/wash-up and viscosity dilution is always recommended in all aspects of coating use. The use of RO(reverse-osmosis) or distilled water is most desirable. Incoming water that has been treated with chlorine may be inconsistent and can provide unreliable/unpredictable long-term results when added to a waterbased coating. The use of an untreated water source is not recommended as the long-term storage results for the coating product can be positive for discoloration and/or odor. Make certain that all aspects of the water source are clean and free of microbial growth. With water treatment/conditioning systems, make certain all components are free of contamination. |
| Coating System | Over-time, the coating system can become contaminated with microbial growth which needs to be cleaned/disinfected. If the coating circuit is contaminated, all coating/water that is circulated is at risk for becoming infected which can result in microbial growth in the source containers. Circulation of hot water and good cleaning procedures can aid in preventing microbial growth. |
| Coating System Operation | During coating use, it is important to ensure that no outside water source is able to contaminate and pollute the coating storage container. In this case, it is necessary to purge all residual cleaning/wash-up water from the coating circuit prior to returning coating back to the coating storage container. The practice of purging all water until fresh coating begins to return prior to placing the return stem in the coating container will help to prevent any contamination occurrence. |
| Coating Storage | Keep the lid sealed on the coating storage container at all times to prevent inadvertent water addition or the contamination by other pressroom chemicals. |