

KML, Inc.

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KML's fundamental goal is to lower your operating costs while increasing your level of service, reporting and accountability.

Advanced Paint Detackification Technologies



The objective of the KML paint detackification program is the continuous improvement of the finish application process. Successful implementation of our treatment program consists of detackifying and separating particulate paint from the water, floating the detackified sludge, and removing the sludge from the system. KML achieves exceptional results using patented detackification technology to treat systems with solvent based, waterborne, or 2k isocyanate paint.

The major benefit of our technology over competitive products is its ability to completely separate paint solids from water and to float the detackified paint sludge, significantly reducing the potential for sludge deposits.

Using this chemistry, KML readily approaches our goal of removing 98% of suspended solids from the booth water. KML paint systems routinely run at less than 100 ppm suspended solids. Returning water with this degree of cleanliness to the spray booth keeps water washed surfaces free of sludge buildup and maintains booth air balance at more consistent values.

KML has been promoting our detack process as a way to increase efficiency, lower operating costs, and increase "green" or environmental activities. KML has designed fully functional processing areas for several companies. Their implementation has dramatically improved the overall paint process for these facilities. The list below details the improvements these facilities experienced after KML's detack program began.

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PROGRAMS OBJECTIVES AND BENEFITS:

- Less paint accumulation in holding tanks due to the excellent flotation qualities of the paint sludge.
- Less maintenance will be required on paint booths due to better flotation, excellent kill, and water cleanliness.
- The paint sludge will be extremely fluid, and therefore, any deposition that does occur can be hosed out and removed with water.
- Less sludge deposition will result in reduced or eliminated odors caused by anaerobic bacteria.
- Clean, low-solids water being returned to the paint booths will lower the potential for paint buildup on any tacky areas.
- A clean water curtain will reduce the deposition found in stacks and on fans. Paint solids retained in the water curtain have the potential of being drawn up into the stacks and fans, in the event that liquid is exiting via the stacks.
- Cleaner eliminator sections and consistent water curtain will reduce particulate and VOC emissions from the stacks.
- A cleaner system will aid in maintaining consistent booth balance and increased transfer efficiency.
- This chemistry has a wide operating window. If an upset occurs paint kill and flotation will remain acceptable.
- This is a non-carcinogenic chemistry.

- **Lowered paint rejection rates.**
- **Paint booth water was changed three times as often increasing the cleanliness of paint booth and lowering odor concerns.**
- **Disposal costs of paint booth water and sludge lowed almost in half.**
- **Paint booth water is processed and recycled back to the paint booth eliminating the cost of thousands of gallons of makeup per year.**
- **Even after construction costs, facilities saved money in the first year.**

