

Case Study: ECOBOND® LBP Proven Successful in Treating Lead Dust and Lead Paint Safely and Economically

Overview: The City of Arvada required cost-effective, safe and responsible lead/lead dust treatment in order to decommission a lead contaminated industrial structure, a former indoor firing range. After reviewing standard abatement approaches, the City was concerned about the potential for spreading lead dust to workers and the environment and began to search for new, more proactive approaches.



Problem:

This lead hazard project included both lead dust and lead contamination in paint and in a variety of building materials including wood, cinderblock, sheet rock, concrete and ceramic tile. Sampling confirmed lead levels up to 100,000 ppm or 10% by weight, which is considered a substantial risk.

Major concerns for this project included:

- Worker safety and protection from lead hazards
- Prevention of lead dust contamination to other building areas and the environment
- Effective treatment of lead dust and lead contamination for low cost, environmentally protective waste disposal

Solution: The City selected ECOBOND® LBP based on its proven ability to:

- Seal lead dust, reducing airborne lead dust generation by up to 99%; thereby protecting workers and the environment
- Effectively treat lead in building materials, allowing for non-hazardous waste disposal
- Save time and money through ease of application - easily applied using a standard commercial paint sprayer



Results:

*MT2's ECOBOND® technology provided highly effective lead treatment with an average 92% reduction in lead dust and TCLP results for treated materials well below 5.0 mg/l Pb at a cost of **less than 25¢ per square foot** for the product plus application. **Cost savings** were realized through ease of application (time & money), expansive coverage, and effective treatment for lower cost, non-hazardous waste disposal.*

Approximately 125 gallons of ECOBOND® LBP was applied over a two day period to interior surfaces by one professional painting contractor utilizing a standard commercial paint sprayer (SprayTech EPX2305 with .026 tip, .67 GPM pump, and all filters removed). The majority of the surface areas required only one coat at 6 mils wet; some areas of high lead concentration received a second coat for a total 12 mils wet. Following application, the product was allowed to dry and cure for approximately 24-48 hours to complete the lead treatment process. Confirmation sampling was performed in accordance with [EPA Lead Dust Sampling Technician Field Guide](#) and samples were provided to an independent laboratory for analysis.

Industrial Lead Hazard Treatment Project Sampling Results – City of Arvada

Sample ID	Type of Material	Wipe Sample Before Treatment (ug/ft ²)	Wipe Sample After Treatment (ug/ft ²)	TCLP Sample After Treatment (mg/L)
W-1	Wood	4,980	<500*	0.60
W-3	Cinderblock	184,000	336	Non Detect
W-5	Sheet Rock	4,680	306	0.26
W-8	Concrete	1,690	251	Non Detect
W-10	Ceramic Tile	2,470	202	Non Detect

* Two coats

[Click here to view project video](#)

ECOBOND® LBP

ECOBOND® LBP is a high quality interior/exterior acrylic latex paint and multi-use lead paint remediation product that seals and treats lead dust and lead in lead paint as well as peeling and chipping lead paint. ECOBOND® LBP is far superior to regular latex paint, sealants or paint strippers for sealing and treating lead hazards. >[Learn more](#)

Contact ECOBOND LBP, LLC

888-520-7132

info@ecobondlbp.com