



InnoSense LLC is a technology firm serving the aerospace, defense, energy, and healthcare markets. We develop cutting edge innovations in chemical and biological sensing, and nanomaterial technologies. Learn more about our latest innovations at [www.innosense.us](http://www.innosense.us)



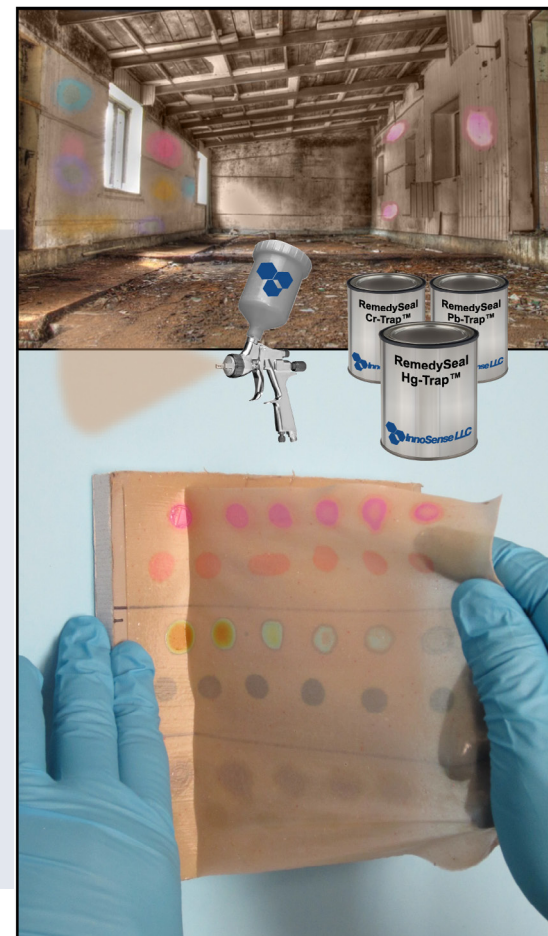
*InnoSense LLC is about 15 miles from Los Angeles International Airport. We have teaming arrangements with large and small companies to transition our technologies to commercially viable products.*

Located in Southern California



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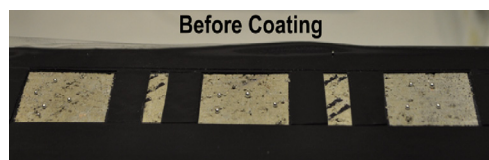


**REMEDYSEAL™**  
**COLOR-SMART COATINGS**  
**FOR CONTAMINANT**  
**DETECTION AND**  
**SEQUESTRATION**

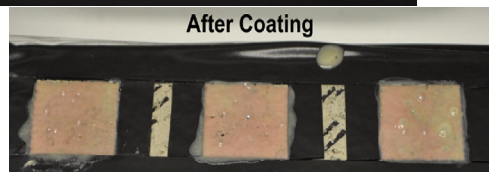
## COLOR-SMART COATINGS - US PATENT PENDING

InnoSense LLC's family of strippable coatings—**RemedySeal™**—visually indicate the presence of hazardous contaminants. RemedySeal's embedded proprietary chemochromic indicating water-based formulations bind to the contaminants, to visually indicate their presence and entrap them. Ultimately, RemedySeal would:

- Minimize the risk of exposure to contaminants, particularly by entrapping and indicating their presence;
- Allow informed demolition and maintenance decisions based on visually indicated contaminant levels;
- Sustain decontaminated zones.



Before Coating



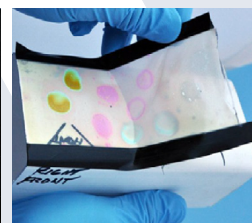
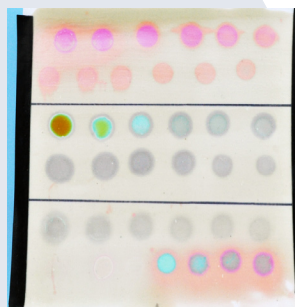
After Coating

Liquid mercury droplets on brick before coating (top left) are entrapped and detected by RemedySeal™ Hg-Trap coating (bottom right).

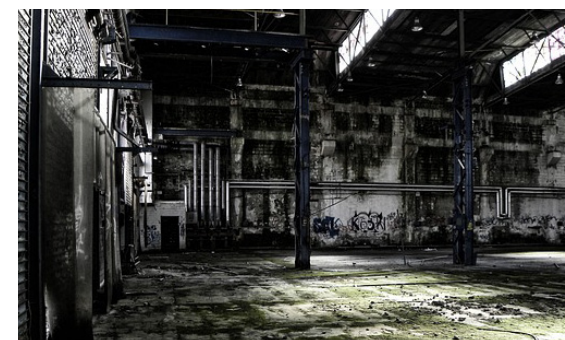
**RemedySeal™ Hg-Trap**, the first in a family of strippable coatings, is being developed for the Department of Energy's efforts to demolish and upgrade mercury-contaminated infrastructures at the Y-12 Complex. In addition, RemedySeal can be modified to entrap and detect other dangerous heavy metals and contaminants.

## TECHNOLOGICAL BENEFITS

- **Visual chemochromic binding agents** impart color in the presence of ionic and liquid mercury.
- **Characterizes and targets specific** contaminants by **color and location**, **customizable** to other hazardous contaminants.
- **Applies and adheres to many surfaces**—smooth or rough and porous—including: galvanized and stainless steel, glass, porous concrete, wood, PVC and painted drywall (cover bottom image).
- **Strippable** by direct peeling or moderate mechanical force without cracking or tearing—thus **minimizing hazardous waste volume**.
- **Environmentally friendly water-soluble polymers** with **low to no volatile organic solvents** that promote migration of ionic species.



RemedySeal™ Hg-Trap clearly indicates the presence of mercury in different concentrations even in the presence of other interfering metal ions (top left); it is compatible with PVC pipe (top right) and brick (bottom left), and strippable.



RemedySeal™ sprayed in old factories and smelting plants can offer a safer demolition with a lower environmental risk.

## POTENTIAL APPLICATIONS

- **Demolition and maintenance of contaminated sites**, such as:
  - old thermometer, fluorescent light bulb and neon sign factories
  - smelting plants and mercury battery manufacturers
- **Cost-effective detection of contamination sites**:
  - buildings located in or near improperly decommission sites
  - possible "dirty bomb" sites
  - facilities where hazardous chemicals are handled



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