

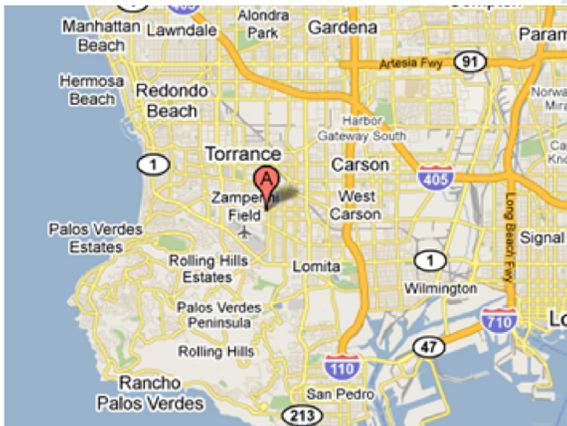


InnoSense LLC is a technology firm serving the aerospace, defense, energy, and healthcare markets. We develop cutting edge innovations in chemical and biological sensing, and nanomaterial technologies. Learn more about our latest innovations at www.innosense.us



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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Bottom cover photo courtesy of ICM (<http://www.icm.cc/>)



Sample with sequestered hazardous contaminants – Pink regions indicate Mercury(II) while blue/gray regions indicate Copper(II).



TRAP & SEE™
COLOR-SMART COATINGS
FOR CONTAMINANT
DETECTION AND
SEQUESTRATION

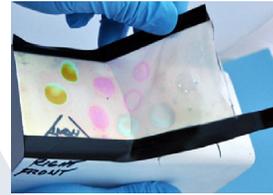
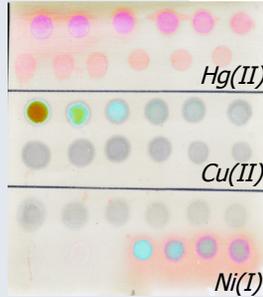
TRAP & SEE™

COLOR-SMART COATINGS - US PATENT PENDING

InnoSense LLC's family of strippable coatings—**Trap & See™**—visually indicate the presence of hazardous contaminants. Trap & See's water-based formulations, with embedded proprietary chemochromic agents, bind to the contaminants to visually indicate their presence and entrap them.

Trap & See will:

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



Trap & See™-Hg clearly indicates the presence of mercury in different concentrations even in the presence of other interfering metal ions (left). It is compatible with and strippable from both PVC pipe (above) and brick (left).



Mercury beads in a Y-12 building basement. Photo courtesy of Oak Ridge National Laboratory (ORNL), U.S. Dept. of Energy.



International Climbing Machine's The Climber applies Trap & See Coating using a spray attachment (left) and then peels the dry coating (bottom).



Photos courtesy of ICM (<http://www.icm.cc/>)

Trap & See™-Hg, the first in a family of strippable coatings, is being developed for the Department of Energy's (DOE) efforts to demolish and upgrade mercury-contaminated infrastructures at the Y-12 Complex.

Trap & See can be modified to entrap and detect other toxic metals and contaminants.

TECHNOLOGICAL BENEFITS

- **Chemochromic binding agents impart color** to identify the presence of ionic and liquid mercury.
- **Can be applied to many surfaces** – smooth or rough and porous—including: metals, glass, porous concrete, wood, PVC, painted drywall and brick.
- **Strippable** by direct peeling or moderate mechanical force without cracking or tearing –**minimizing hazardous waste volume**.
- **Environmentally friendly water-based polymers** with **low to no volatile organic solvents** that promote migration of contaminants.
- **Coating can be sprayed using a remote-controlled robot** to reduce human exposure to health risks.

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 decontamination of hazardous sites**, such as:
 - Possible "dirty bomb" sites;
 - Facilities where hazardous chemicals are handled.



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