



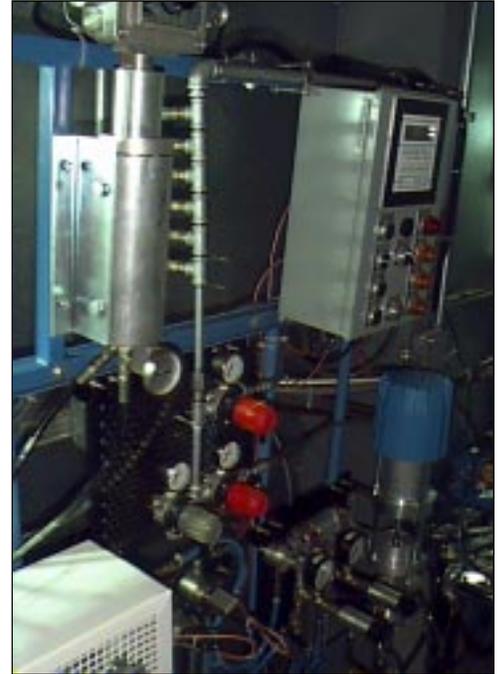
Navy Environmental Quality Fact Sheet



Do you use two part epoxy paints?

Would you like to improve this process in the following areas?

- **Meeting environmental compliance regulations** -- Reduce hazardous waste disposal and air emissions. Regulatory areas include RCRA and VOC NAAQS.
- **Improving workers' safety and health** -
- Reduce exposure to solvents and paints.
- Reduce exposure to hazardous waste.
- **Increasing productivity** -- Reduce labor hours by 50%. Improve readiness due to the ability to paint on demand.
- **Saving Money** -- Reduce costs associated with paint process hazardous waste disposal. Eliminate labor requirements for paint mixing.



Plural component paint system

Many painting operations require the use of multi-part epoxy paint mixtures. In the past these paints were mixed manually by combining a base and a catalyst in a container. This process results in the generation of waste excess paint and waste solvent required for container cleanup. In the plural component paint system, epoxy paints are automatically mixed on demand, dramatically reducing waste paint and solvent. The plural component paint system is being used successfully at several Navy installations. This equipment is available through the Navy Pollution Prevention Equipment Program.

How can you achieve these improvements?

Implement a Plural Component Paint System.

How does this equipment work?

Epoxy paints are automatically mixed on demand eliminating the requirement for manual mixing. As a result, far less waste paint and solvent is generated.

How will this equipment save you money?

Typically this equipment will pay for itself in less than one year. Cost to implement is \$6,000 for a single system to \$70,000 for multiple systems.

Typical Process Flow Diagram



How can this technology eliminate or reduce pollution?

This technology can dramatically reduce the generation of waste paint and solvents. Implementation will result in the following pollution reductions:

- Dramatic Reduction in the Disposal of Paint and Solvent as Hazardous Waste
- Dramatic Reduction of Solvent and Paint Air Emissions Related to Paint Mixing and Equipment Cleanup.

Which shops can benefit most from this technology?

This technology can be used in any processes that apply epoxy paint using paint guns. Typical shops include:

- Aircraft Painting
- Vehicle Painting
- Support Equipment Painting

Take action: How can you implement this technology?

- **Activity Shop & Work Center Personnel.** If you work at an activity, contact your Pollution Prevention Program Manager. The P2 Program Manager can provide more information and conduct a more detailed analysis, and may be able to provide this equipment at no cost to a Shop or Work Center.

- **Activity Pollution Prevention Manager.** Request funding and installation assistance for this technology through the Navy P2 Equipment Program. Depending on the application, the Environmental Requirements Cookbook may contain project submission information for annual budget submissions to your major claimant.

- **For Additional Technical Information.** More information about this technology can be found in the Joint Service P2 Opportunity Handbook Datasheet No. 4-04([Web: http://www.nfesc.navy.mil/](http://www.nfesc.navy.mil/)).

Achieving Environmental Compliance Through Pollution Prevention

Everyday the Navy faces the challenge of operating and maintaining the fleet while complying with environmental regulations. This burden can be reduced by implementing pollution prevention technologies and methods to reduce compliance requirements. This Fact Sheet is one in a series designed to encourage activities to implement pollution prevention technologies and methods. The overall goal of this series is to promote sustained environmental compliance at the lowest life-cycle cost.

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