



## Federal Energy Management Program

### New and Underutilized Technology: Duct Sealants

The following information outlines key deployment considerations for duct sealants within the Federal sector. This information spans:

- [Benefits](#)
- [Application](#)
- [Key Factors for Deployment](#)
- [Ranking Criteria](#)
- [Resources](#)

#### Benefits

Aerosol sealant is injected into the ductwork to seal leaks. This can save energy and costs associated with heating, cooling, and fan operation depending on building type.

#### Application

Condensing boilers are appropriate for most building applications.

#### Key Factors for Deployment

Sealing ductwork should be a standard energy conservation measure evaluated during design, construction, major renovation, or other HVAC projects.

#### Ranking Criteria

Federal energy savings, cost-effectiveness, and probability of success are ranked 0-5 with 0 representing the lowest ranking and 5 representing the highest ranking. The weighted score is ranked 0-100 with 0 representing the lowest ranking and 100 representing the highest ranking.

Federal Energy Savings	Cost Effectiveness	Probability of Success	Weighted Score
1.6	5.0	4.3	63

#### Resources

The following resources are available:

- [Improved Duct Sealing](#): ASHRAE article on duct sealing technologies and best practices.
- [Sacramento Municipal Utility District \(SMUD\) Aroseal Duct Sealing Program](#): Overview of the SMUD duct sealant program and how repairing leaky ducts can save money and prolong equipment life.
- [Aerosol Duct Sealing](#): National Association of Home Builders Research Center overview on aerosol duct sealing.
- [Aerosol Duct Sealing Calculator](#): Upper Peninsula Power Company screening tool to calculate payback periods for aerosol duct sealing.
- [Flex Your Power – Ducts/Duct Sealing](#): Online resource covering duct sealing technologies and best practices.