

SPRAY-SEAL™

VS.

Bucket and Brush

*A look at why **SPRAY-SEAL** is the best available method for sealing exposed ductwork in both new construction and remediation projects.*



CARLISLE
HVAC PRODUCTS

How low can you go?

Carlisle HVAC's SPRAY-SEAL is the industry's only code- and contractor-approved, field tested, factory-supported, and warrantied duct sealant system. When you use SPRAY-SEAL, you will be amazed at "how low you can go" in regards to duct leakage, installed costs, callback labor, jobsite trash, and construction delays. Your system's efficiency, however, will be higher than ever.

Hardcast is known throughout the construction industry as a leading manufacturer of cutting-edge, high-performance Heating, Ventilation, Air-Conditioning products. Since its inception in 1965, Hardcast has been at the forefront of inventing and developing innovative products such as mastic sealants, rolled sealants, insulation adhesives, and duct hardware.

Now, Hardcast has taken another step forward with SPRAY-SEAL™, the only system of its kind in the industry. SPRAY-SEAL, which is used in conjunction with Hardcast's Mobile Sealant Delivery System, is the industry's only proven, tested, and field-supported sprayable duct sealant technology. Not only can SPRAY-SEAL provide more than 50% labor and cost savings at the time of application, it offers outstanding air-tight protection for years to come.

An airless sprayer is used to apply SPRAY-SEAL, as opposed to the traditional bucket and brush method of applying duct sealant. Employing the airless sprayer ensures that the sealant is applied at a consistent, high pressure, and is being driven into the gaps between joints and seams. Using SPRAY-SEAL with Hardcast's Mobile Sealant Delivery System means you can achieve a great seal the first time around.

A tight, dependable seal is especially important because duct leakage tests are now required to meet many building codes and engineering designs. Brush-applied sealants have performed admirably throughout the years, but the application process is much slower, and can be subject to human error without an experienced, trained professional applicator. However, when using SPRAY-SEAL with the Mobile Sealant Delivery System, application is once and done. The labor savings and positive impact to jobsite timelines are key reasons to switch from traditional sealing methods to the proven SPRAY-SEAL system.

SPRAY-SEAL Benefits:

When used with Hardcast's Mobile Sealant Delivery System, SPRAY-SEAL can provide many benefits over bucket and brush application, including:

- Labor and cost savings of up to 50%
- Reduced application time
- Consistent, uniform coverage
- Enhanced performance for higher SMACNA pressure classes
- Increased coverage rate
- Ability to pass leakage tests on first attempt

SPRAY-SEAL is compatible with practically any duct system, including:

- Metal
- Glass fiber duct board
- Flex duct
- Duct fabric
- Flexible tubing runouts

SPRAY-SEAL is specially formulated for spray applications at the jobsite. The portable delivery system is easily transported from the shop to the field.

SPRAY-SEAL is unique in its ability to accommodate minor vibration and movement within the ductwork, and it stays flexible (elongates 500% before it will break) to prevent the need for callback labor.

SPRAY-SEAL contributes to LEED® requirements, as it is a water-based, low-VOC sealant. It is USDA and EPA approved. In addition, it is approved for use in food preparation areas.

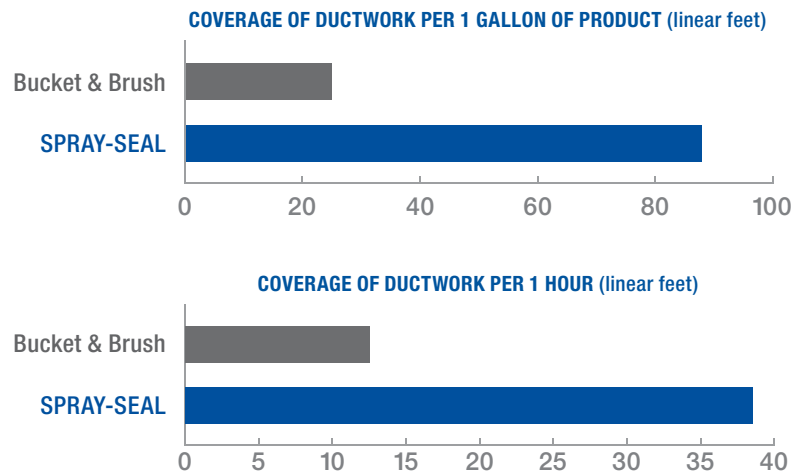


Using SPRAY-SEAL, jobs that used to require a large crew can now be done with fewer people in less time, with better, more consistent results. SPRAY-SEAL was formulated to spray through a very fine tip, which controls the amount of product used and minimizes overspray. The one-of-a-kind Mobile Sealant Delivery System is engineered to give the operator precise control of the SPRAY-SEAL, resulting in a steady speed and pressure of application and a tight, reliable seal. The proof is in the myriad of satisfied contractors around the country who have depended on Carlisle HVAC's engineering team to help answer their questions, resolve their issues, and support zero leakage goals for all forced-air heating and cooling systems. Accept no substitute...Demand the Carlisle HVAC Hardcast SPRAY-SEAL engineered duct sealing system.

Testimonials:

Contractor: Humphrey Mechanical

Humphrey Mechanical was tasked with sealing the duct system to class A (transverse joints, longitudinal seams, and any penetrations) on two identical floors of a large military facility in North Carolina. On one floor of the building, they used the bucket and brush method with a ladder. On the other floor, they used SPRAY-SEAL and a ladder. However, a scissor lift soon became necessary due to the speed of the SPRAY-SEAL application; it went on so fast that workers were spending more time climbing and moving the ladder than spraying on the product. The contractor was extremely impressed with the speed of application and coverage rates of SPRAY-SEAL; the job used 3.5 times less product, and the application process was 3 times faster than bucket and brush.



Contractor: Bright Sheet Metal

Bright Sheet Metal faced a challenging task at Parkview Hospital in Indiana; sealing 32 miles of ductwork, which translated to 100+ miles of joints and seams. Initially, it was estimated that it would take between 4,000 and 5,000 man hours to complete the job using the bucket and brush application method. However, utilizing SPRAY-SEAL and the Mobile Duct Sealant Delivery System, the job was completed approximately five times faster than was originally estimated. Ken Kendrick, a Project Manager at Bright Sheet Metal, stated, "We found that the Hardcast SPRAY-SEAL System is a much faster way to seal ductwork. It's been very efficient...In the future, Bright Sheet Metal has no intentions of going back to the bucket and brush. We will continue to use the Hardcast SPRAY-SEAL System. It's more efficient, more cost-effective and it does a better job."



Contractor: MidAtlantic Mechanical

MidAtlantic Mechanical sealed the ductwork in an almost 1 million square foot, ¼-mile-long building that serves as the headquarters for a New Jersey-based pharmaceutical company. The building is certified LEED Silver, and the contractor's use of SPRAY-SEAL contributed to LEED credits. In addition, the constant, even pressure of SPRAY-SEAL's Mobile Delivery System allowed MidAtlantic to pass the SMACNA-required minimum leakage level testing on the first try. Using the Mobile Duct Sealant Delivery System, MidAtlantic was able to seal all duct sections to substantially lower leakage levels than are required by SMACNA - some sections down to 0% leakage. Mark Spiezio, MidAtlantic's Mechanical VP of Operations, said "Hardcast's SPRAY-SEAL is revolutionizing the way we seal and test the ductwork", and Tim McNeill, MidAtlantic Mechanical's Project Manager, added, "Using the SPRAY-SEAL system is life-changing. It's faster, it's cleaner, and we're using less product. Plus, every single test that I've done after spraying with SPRAY-SEAL has passed-some with 0% leakage, which is unheard of."



Contractor: ACP Sheet Metal

The duct system in the historical Oklahoma County Courthouse in Oklahoma City, OK was in need of a retrofit which, in addition to sealing the existing duct system, utilized energy recovery ventilators. The duct systems in the building were installed above murals and decorative ceilings, so it was essential that the work be performed with a minimal footprint. A bucket and brush application method was not an option, as the required proximity to the duct system would have caused damage to the ceilings. But utilizing SPRAY-SEAL with the Mobile Sealant Delivery System allowed ACP Sheet Metal to perform the job without any concern of damaging the art and historical details of the building, because it made sealing tight spaces and crevices easy. Nathan Dills, president of ACP Sheet Metal stated, "We could not have completed this job without SPRAY-SEAL and the Mobile Sealant Delivery System."



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