



In this report, you'll learn:

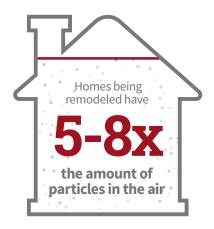


Itchy eyes. Burning throat. Dizziness and fatigue.

All are common signs of pollution – indoor air pollution.

Awareness of indoor air quality (IAQ) among homeowners has heightened in recent years, especially when someone in the home has asthma, allergies, heart disease or other serious long-term conditions. To combat indoor pollution problems, homeowners use a number of creative remedies that mask the problem more than they fix the issue.

During a home remodeling project, IAQ can be much worse than normal because of the excessive amount of dust that gets stirred up every single day. For example, let's say that the particle amount in a house on a normal day is similar to a light drizzle. The daily dust bomb from a remodeling project? It's a torrential rainstorm.





homeowners stay in their homes

during a major project

One study shows that homes being remodeled have five to eight times the amount of particles in the air than homes that are not being remodeled. Remodeling dust – some of it so small you can't see – can damage your short-term and long-term health.

During a remodeling project, most homeowners believe that the responsibility for IAQ is in the contractors' hands. Nine out of 10 homeowners stay in their homes during a major project and rely on the contractor to protect or manage the air quality. This can be a recipe for disaster because some contractors do not manage it correctly, and because homeowners often don't ask questions until it's too late and dust fills the home on a daily basis.

The good news is that top contractors across the nation are using new tools and work processes to minimize the dust.

The new practice is to collect dust at the point of generation while it is still airborne, such as with the new BuildClean Dust Control System. Collecting particulate in this manner is the most effective way to capture and virtually eliminate all types of worksite dust.

For decades, contractors have tried to "manage" dust with some very basic – but mostly ineffectual – methods. When a contractor uses BuildClean along with other best practices, there is a dramatic reduction in airborne particulates. The IAQ can improve to better-than-normal levels.

In fact, homeowners can feel the difference in IAQ before the project has even begun, and some have asked "Are you pumping fresh air into my house?"

The result? Homeowners can breathe easy. Livability of a home is preserved throughout the entire project.

Remodeling dust's hazardous effects.

If IAQ problems exist before a remodeling project, they could be magnified by 10 times during a remodeling project if a dust management plan is not in place.

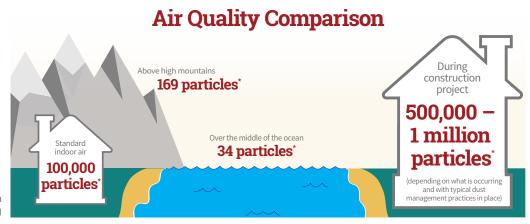
You might be familiar with the dust cloud that results from sanding a small area on a wall. Imagine that tiny project magnified to a much larger area for weeks at a time during a kitchen, bathroom or basement reconstruction.

If unmanaged, dust will get everywhere: on floors, furniture, glassware, dishes, even toothbrushes. The homeowner's family and pets will be in the line of fire as well.

During a typical project, multiple dust-generating events will occur, such as demolition and drywall sanding. The dust will travel with the airflow of the house. Some common harmful substances that may be uncovered during the remodeling of an older home include:

- > Dirt and debris of many sizes, including those you can't even see
- Organic matter like rodent feces and dead bugs
- Materials such as drywall, cement and sawdust
- Dangerous substances such as silica, asbestos and lead
- Mold and mildew
- > Volatile Organic Compounds (VOCs)

Air quality is usually measured as a reading of particles larger than 0.5 micrometers (μm) in one cubic foot of air.

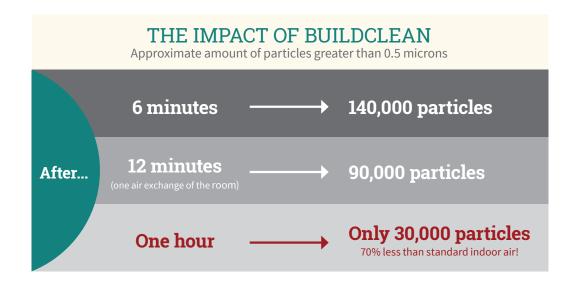


*particles larger than 0.5 μm (per one cubic foot of air) Recent air testing further demonstrates the drastic effect remodeling can have on IAQ.

Bert Schiller, an independent certified industrial hygienist, conducted a test of the BuildClean system on a remodeling project. Just after the dust-generating event, he reported the following:

"The particle counts in the living room quickly reached in excess of 500,000 particles (per cubic foot of air) of dust greater than 0.5 microns. The BuildClean unit was then turned on in the center of the living room in order to determine how quickly the unit could lower the dust count.

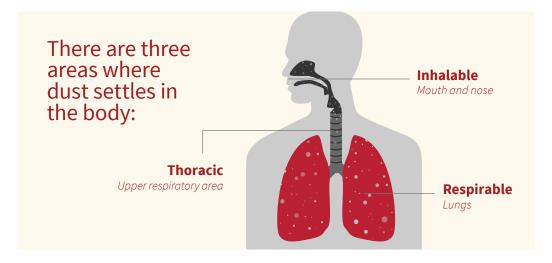
"After six minutes, the BuildClean unit had lowered the dust concentration in the same area to roughly 140,000 particles greater than 0.5 microns. After 12 minutes (one air exchange of the room), the BuildClean unit had lowered the dust concentration in the same area to roughly 90,000 particles greater than 0.5 microns."



Ingesting dust you can – and can't – see.

Smaller dust particles – including those you can't see – are the most hazardous. They are lighter, stay in the air longer and travel farther than larger particles.

When those particles are from potentially dangerous substances (see list on page 5), it is cause for alarm.

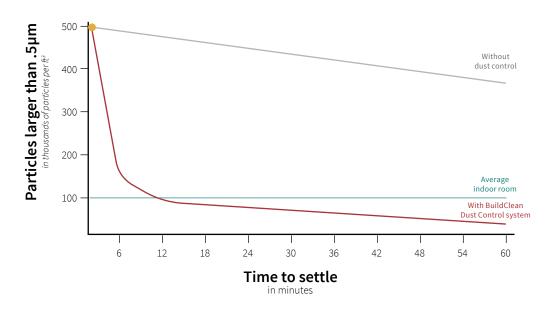


According to the U.S. Environmental Protection Agency (EPA): "The size of particles is directly linked to their potential for causing health problems. Small particles less than 10 micrometers in diameter pose the greatest problems, because they can get deep into your lungs, and some may even get into your bloodstream. Exposure to such particles can affect both your lungs and your heart."



The International Standardization Organization (ISO) reports that "dust particles are usually in the size range from about 1 to 100 microns (μ m) in diameter, and they settle slowly under the influence of gravity."

It's important to note that the health risk is greater when the inhaled particles are smaller. Because as the particle size decreases, settling time increases.



Particles smaller than 1µm may not settle at all but stay airborne permanently. Therefore, it is essential to take steps to clean the air when remodeling.

Lead dust is another danger because it – not paint chips – is the top cause of lead poisoning. If a home was built before 1978, homeowners can create lead dust by disturbing subsurface layers of lead paint during home improvement projects. Dry sanding, scraping, brushing or blasting lead-based paint can produce dust and paint chips.

So, how are these small particulates captured? While they are airborne.

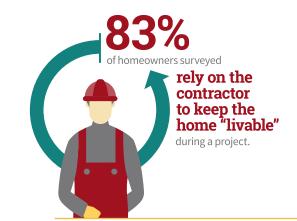


Homeowners must insist on reliable dust control.

If homeowners expect remodeling contractors to "own" the IAQ issue, or at least fix it when it becomes a problem, they're not alone.

But unless the contractor has a livability plan for the homeowner – and the tools to effectively execute that plan – the homeowner will be disappointed and, potentially, in danger.

An astounding 85 percent of homeowners say job site dust is the most serious inconvenience of remodeling. Even though many remodelers



believe they are "handling" the dust control issue, by managing the homeowners' expectations and using ineffective equipment, it's not true.

Homeowners don't have to accept the dust and the dangerous living environment that it creates.

 $81\% \ \, {}^{\text{of homeowners are}}_{\text{unhappy with contractors' dust management.}}$



Homeowners expect that a remodeling contractor will "own" the IAQ issue.

(855) 595-2869

Three steps to a safer remodel.

Here's how homeowners can ensure that IAQ, and the health of their family and pets, is preserved during a project.

1. Look for a "clean" contractor

Many remodelers are letting potential customers know they care about dust control and often show it on their websites. That's a great start.

2. Ask about the livability plan

This plan would cover all aspects of the job – from working hours to dust control – to ensure that a family's day-to-day life is minimally affected.

3. Insist on BuildClean

Contractors who are serious about clean remodeling will use BuildClean on a project. They know BuildClean can collect even the smallest airborne dust particles and virtually eliminate workplace dust.



How to ensure livable remodeling.

BuildClean is a professional dust management system that was invented, designed and built by ITW to solve the No. 1 pain point for both remodelers and homeowners: Dust.

The product was the result of a years-long R&D and testing process with some of the top remodelers in the country. It's designed specifically for the job site, with a two-stage filtration system that can handle the toughest jobs.

BuildClean's collection method:

- Dramatically reduces job site dust
- Provides a healthier and cleaner work environment
- Provides the homeowner a better remodeling experience

#1 PAIN POINT for both remodelers and homeowners:





FOR MORE INFORMATION, VISIT **WWW.LIVABLEREMODELING.COM** OR CALL **(855) 595-2869** TODAY.





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