



**BLIZZARD
BLASTING
SOLUTIONS**

For the coolest, quickest clean



Spray Foam Insulation

Spray Foam

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Dry ice blasting for spray foam insulation removal:

Welcome to BBS's information pack detailing how we are the most effective solution for the removal of spray foam insulation. Spray foam can cause roof timbers to rot. The lack of airflow can cause mould to form, and it can have toxic odours. Mortgage lenders are refusing loans because of the negative impacts of spray foam insulation.



What is it?

Dry ice blasting, also known as dry ice cleaning or CO₂ blasting, is a non-abrasive and environmentally friendly cleaning process that uses high-velocity streams of dry ice pellets accelerated by compressed air to remove contaminants from surfaces. The process combines thermal shock, kinetic energy, and gas expansion to effectively remove dirt, grime, grease, paint, adhesives, and other substances without leaving residues or damaging the surface. The benefits of dry ice blasting include its non-toxic and non-abrasive nature, reduced cleaning time and equipment disassembly, improved worker safety, minimal environmental impact, and versatility across various industries and applications.

Kinetic Effect: When dry ice pellets strike the surface, they transfer kinetic energy, causing the contaminants to crack and loosen.

Thermal Effect: The extremely cold temperature of dry ice (-78.5°C or -109.3°F) causes the contaminants to contract and become brittle, making them easier to remove.

Sublimation Effect: Dry ice pellets convert into CO₂ gas upon impact, rapidly expanding and creating tiny explosions, lifting the contaminants away from the surface.

Benefits of Dry Ice Blasting for Spray Foam Insulation Removal

Non-Destructive: Dry ice cleaning is a non-destructive method that safely removes spray foam insulation without damaging the underlying surfaces. The dry ice pellets are accelerated at high speeds and convert from a solid to a gas upon impact, gently lifting and removing the insulation while leaving the surface intact.

Chemical-Free: Dry ice cleaning does not involve the use of chemicals or solvents. It uses solid CO₂ pellets, which makes it an environmentally friendly option that doesn't introduce additional chemicals into the environment or leave behind any residue on the cleaned surfaces.

Efficient and Fast: Dry ice cleaning is a fast and efficient process for spray foam insulation removal. The kinetic energy of the dry ice pellets effectively breaks the bond between the insulation and the substrate, making it easier to remove. This results in shorter cleaning times and reduces the overall downtime associated with insulation removal projects.

No Secondary Waste or Cleanup: Dry ice blasting leaves behind no residue or waste. The dry ice pellets sublime into the atmosphere upon impact, leaving a clean and debris-free surface. This eliminates the need for additional cleanup or waste disposal processes.

Safe and Versatile: Dry ice cleaning is a safe method for removing spray foam insulation. It can be used on various surfaces and structures, including walls, ceilings, attics, and crawl spaces. It is suitable for both residential and commercial applications.

Spray foam insulation can be effectively removed with dry ice cleaning. The dry ice blasting process involves directing solid CO₂ pellets at high velocities into the spray foam surface. The high temperature difference between the dry ice (-78.5°C) and the foam causes it to become brittle and shrink when it collides. This makes it easy to peel from the surface and remove without causing damage.

One of the primary advantages of dry ice cleaning for spray foam removal is that it is non-abrasive. The dry ice pellets sublime upon impact, turning from solid to gas, resulting in no further waste. As a result, it is a more environmentally friendly solution. Furthermore, dry ice cleaning does not utilise any chemicals or solvents, providing a safe and clean operation.

Dry ice cleaning is a versatile technique that may be used on a variety of surfaces such as walls, ceilings, floors, and equipment, making it appropriate for both home and commercial purposes. It provides efficient and comprehensive spray foam insulation removal, saving downtime and the need for lengthy cleanup. Overall, dry ice cleaning is a quick, safe, and effective way to remove spray foam insulation, leaving surfaces clean and ready for additional treatment or reapplication.

Our Process

- **Initial Assessment:** We will conduct an initial assessment of the site and the spray foam insulation to determine the scope of the project. Then evaluate the type and condition of the insulation, as well as the surfaces it is applied to.
- **Project Planning:** Based on the assessment, we will develop a comprehensive project plan that outlines the specific steps and timeline for removing the spray foam insulation. This includes determining the equipment, materials, and resources needed for the job.
- **Preparation:** We will prepare the site for the insulation removal process. This may involve covering or protecting surrounding areas, setting up containment measures, and ensuring proper ventilation.
- **Dry Ice Blasting:** The core service provided by BBS is the dry ice blasting process itself. Using specialised equipment, we will blast dry ice pellets at high velocity onto the spray foam insulation, effectively breaking its bond with the surface and causing it to shrink and detach.
- **Clean-up and Waste Disposal:** After the dry ice blasting process, we will handle the clean-up and disposal of the removed insulation. We will employ methods such as vacuuming or sweeping to collect and remove the loose insulation from the site. Proper waste disposal practices will be followed to ensure compliance with environmental regulations.
- **Post-Cleaning Inspection:** The company will conduct a thorough post-cleaning inspection to ensure that all traces of spray foam insulation have been effectively removed. We visually inspect the surfaces and address any remaining areas that require further cleaning or touch-up.
- **Documentation and Reporting:** BBS will provide documentation and reporting services, including project documentation, before and after photographs, and a detailed report of the work performed. This helps ensure transparency and provides a record of the insulation removal process.
- **Consultation and Advice:** As experts in spray foam insulation removal, BBS offer consultation services, providing advice and recommendations for insulation replacement or other related services. We guide clients on the most suitable insulation options for their specific needs and budget.

Summary

Dry ice cleaning has major advantages for removing spray foam insulation. It is a quick and non-destructive procedure for breaking the link between the insulation and the surface, allowing for easy and safe removal. Dry ice cleaning is environmentally friendly since it uses no chemicals or solvents and leaves no residue, avoiding the need for subsequent cleanup. It is a versatile procedure that can be used on a variety of surfaces, decreasing downtime and increasing operational efficiency. Overall, dry ice cleaning provides a fast, effective, and safe solution for the removal of spray foam insulation, making it an ideal choice for insulation removal projects.

Request a Quote today

Contact information



07803 267356



info@blizzardblasting.co.uk