



PROPERTY
DAMAGE
RESTORATION

CO₂ Dry Ice Blasting

Cleaning mineral, metallic & imitation wood surfaces



Property Damage
Restoration



Temporary
Humidity Control



Property Damage
Prevention



APPLICATION

Overview

Cleaning mineral concrete, metallic substrates and imitation wood surfaces is often difficult and problematic, particularly when the stain is caused by oil or lubricants. Attempting to clean them without the appropriate equipment can worsen the problem, causing further penetration of the stain. Based on their considerable experience and knowledge of cleaning such surfaces, Munters has moved away from using the more traditional route of power, water and chemicals; instead opting for a new process using CO₂.

Mixing compressed air and CO₂ ice, Munters blast the solution onto the soiled surfaces at a specific temperature and speed. This process embrittles the stain as it is loosened by the impact of the CO₂ particles. The transition from solid to a gaseous state ensures that no residues are left behind, so any odour neutralisation that is required can be added following CO₂ application.

The CO₂ dry ice blasting process has little if any abrasive effect and, depending on the particular types of plant used, will not damage the surface.



Dry ice blasting to reach hidden components.



Cleaning with dry ice blasting machine.



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PROCEDURE

Munters offer a range of solutions aimed at tackling a variety of stains on a number of surfaces. Types of surfaces that Munters can clean include machine parts, steel structures, electronic components, wooden structures such as roof frames and staircases, domestic controls and fine mechanisms. Having assessed the affected area, the Munters technician determines which variant of the CO₂ blasting solution is required in order to tackle the stain. These variants include CO₂ pellets, tailings or foam.

The speed at which Munters are able to clean per hour depends on environmental parameters and the geometrical and structural characteristics of each project.



Dry ice blasting surfaces damaged by smoke.

RESULTS

The competence and experience that Munters' technicians offer, guarantees that the most appropriate CO₂ process is identified and used, resulting in the effective removal of all stains.



Structure requiring cleaning.

BENEFITS

- A sparing and non-destructive process
- Eliminates damage to the surface as there are no abrasive effects
- Difficult areas are reliably reached
- No residues are created as a result of the blasting
- Surfaces can be treated without the use of water
- Achieves reduced drying times
- Eliminates the need to use additional cleaning chemicals
- Provides an approved solution for the food industry
- Environmentally friendly.



CO₂ dry ice blasting machine.