



BLASTING & PREPARATION DIVISION



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*Floor
Blasting*



*UHP Water
Blasting*



*Vacuum/Open Shot
Blasting*

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BLAST DIVISION

The Blast Division of the Joseph Hughes Group are leaders in preparing surfaces. All blasting or mechanical preparation can be carried out at our purpose built Blast and Spray Booth or on-site by our MOBILE BLAST UNITS. Our trained operatives carry out the following preparation methods:

- VACUUM FLOOR BLASTING
- ULTRA HIGH PRESSURE (UHP) WATER BLASTING
- OPEN/VACUUM SHOT BLASTING
- MECHANICAL AND CHEMICAL COATING REMOVAL

FLOOR BLASTING

One of the most important aspects of any flooring project is preparation. Vacuum shotblasting is the industry standard and used for:

- Laitence Removal on new concrete floors
- Removal of old paints and coatings
- Exposing aggregates to accept screeds.



ULTRA HIGH PRESSURE (UHP) WATER BLASTING

Today, due to environmental and economical consideration, high-pressure water blast technology is an important tool for surface preparation work prior to coating application. High-pressure water blast technology generates ultrahigh pressure waterjets with operating pressures up to 3,000 bar (43,500 psi).

Ultra-high pressure water blast technology is used for the following applications:

- Surface preparation prior to coating application.
- Removal of deteriorated protective coating systems.
- Spot repair on partially deteriorated coating systems.
- Selective paint stripping.
- Cleaning and descaling of weld seams.
- Σ Emission-free surface preparation.



WHY SHOULD CUSTOMERS USE WATER BLAST TECHNOLOGY?

Water blast technology offers distinct advantages over other methods for surface preparation.

- ✓ Water blasting is dust-free, allowing different trades, to work side by side. Moreover, dust-sensitive areas can be maintained while the water blasting is carried out.
- ✓ Water blasting significantly reduces the amount of deposit. Compared to grit blasting, up to 98 percent less solid waste material needs to be considered. Customers save large amounts in disposal costs.
- ✓ Water blasting generates very low impact forces on surfaces; working almost vibration-free. No substrate material will be removed. Customers avoid damage on their structures.
- ✓ Water blasting is used in rainy or windy environment. Customers are not dependent on weather conditions and can readily schedule work with a high reliability.
- ✓ Water blasting significantly reduces the time required for cleanup because no grit needs to be collected and removed at the end of the job. Customers save hundreds of hours of time and labour.
- ✓ Water blasting guarantees the highest possible cleanliness level among all surface preparation methods. The remaining level of salt, chloride and other elements is minimized. There is no embedded grit as found after grit blasting being a source for new corrosion.
- ✓ Water blasting ensures excellent adhesion conditions between substrate and coating even if flash rust is present.
- ✓ Water blasting exposes the original profile. In contrast, grit blasting reduces the original profile height due to particle impact. Customers offer an excellent surface profile to the painter giving a good mechanical bond between substrate and coating.
- ✓ Water blasting operates emission-free in closed loop systems. Sealed tools connected to vacuum and water treatment systems prevent any exposure to paint particle dust, fume or water mist. Customers contribute to a safe and clean environment.

OPEN/ VACUUM SHOT BLASTING

Many jobs now require that old style, productive, but highly offensive, open blasting be abandoned in favour of a more controlled approach. The industry recognises Vacuum Blasting as a better alternative because it retrieves dust, residue and abrasive at the point of blast and it eliminates the negatives traditionally associated with open blasting such as contamination, dust, poor visibility, operator exposure, shut down work surrounds and clean up. Our system is ideal for the removal of Toxic Coatings, such as Lead Paint and Asbestos dust residue, and can be provided with HEPA filters for this application.

MECHANICAL AND CHEMICAL COATING REMOVAL

Our operatives are trained in the use of mechanical wire brushes, discing machines and in the proficient use of chemical paint disbonders. This element of works is only carried out when environmental factors disqualify all the other blasting options as the intensive use of labour can be both slower and more costly.