

Water blasting involves the use of ultra high pressure water, usually between 30,000 psi and 40,000 psi to prepare a surface for a coating or paint. Ideal for industrial applications, water jetting provides a powerful, environmentally safe way of solving difficult cleaning, cutting and surface preparation problems.

Product / Service: **Water Jetting**

With regards to surface preparation, water jetting is the process of removing contaminants (such as oils, salts and chemicals) from a surface. Surfaces may include ship hulls and decking, landing areas on aircraft carriers, large storage tanks (internal and external), walk ways, and helipads. Other contaminants include old paint, sugars, scale, and rust. The process uses motors, pumps and accessories to ensure that the surface is prepared effectively and efficiently.



Benefits:

- ▶ Compared to abrasive blasting such as sand or compressed air, water jetting leaves 98% less residue behind and is dust free.
- ▶ Dust free environments allow coating and painting to occur simultaneously with surface preparation.
- ▶ Multi-layered coating system removal is possible with water jetting, and there is no damage to sensitive areas such as welding seams and connecting joints.
- ▶ It is a completely effective and environmentally friendly manner of surface preparation for coating applications.

In recent years, Ultra High Pressure Water Jetting has become the leading method for surface preparation.

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INDUSTRY	APPLICATIONS	PSI
Airport	Grease, rubber & hydraulic fluids on runways; expansion joints.	10,000 – 40,000
Aluminum Plants	Hardened bauxite dust on mills, filters, floors, tanks, sumps, sewers & piping.	10,000 – 40,000
Automotive	Paint & solder from booth, conveyors, machinery & grating.	8,000 – 40,000
Cement Plants	Hopper cars, bins, conveyors, floors, walls, rotary line, cooler hearths & preheater columns. Dirt, grease & product accumulations on floors, grates, walls, external piping, hopper cars, handling equipment & bins.	3,000 – 10,000
Chemical Processing	Boiler tubes, heat exchangers, tanks, pipes, vessels, valves, evaporators, reactors.	6,000 – 40,000
Concrete Demolition	Milling & rebar exposure.	18,000 – 40,000
Construction	Concrete, tar, asphalt, mortar, dirt grease, mastic on vehicles, mix trucks & machinery. Asphalt distributors, pavers, mixers & tar cookers. Latents for dams, lifts, canals & runways prior to pours (cleaning rebar). Exposing aggregate (retarded). Exposing aggregate (unretarded); concrete cutting.	3,000 – 40,000
Highway Maintenance	Expansion joints; paint stripes. Mud, grease, vegetation, tar, cement or asphalt on vehicles & mach. Stains, tar & mastics on concrete bridges & overpasses; graffiti. Unstop culverts on bridges & clean up overflows.	5,000 – 20,000
Marine	Barnacles, & marine growth, loose paint & rust on ship's hulls, platforms, docks. Ballast & storage tanks & boilers, tube cleaning. Underwater cleaning of pipe & drilling platforms.	10,000 – 40,000
Metal Working	Mill scale, tight rust & weld slag from new vessels, pipe & mixers. Cathode & anode cleaning (molten metals)	10,000 – 40,???
Military & Aerospace	Rocket engine & projectile propellant removal.	5,000 – 20,000
Mining	Clogged plant machinery due to rock dust, coal, mud or oil. Premaintenance cleaning of dumpers, drag lines, underground haulage lines & shafts; aid in recovery of ore; hydraulic cutting.	7,000 – 10,000
Oilfield	Drilling mud & cement from drill pipe. Paraffin & crude residues on platforms & storage tanks.	3,000 – 20,000
Petrochemical Processing	PVC, PVA, iron oxide, calcium carbonate & sulphate, chlorides, hard polymers, coke, hard carbon on heat exchanger & reboilers. Soft polymers carbon, algae, scum & buildup in heat exchangers, reboilers, reactors, tanks, cooling towers & facilities.	5,000 – 40,000
Pharmaceutical	Chemicals (liquid or solid) from kettles, pipes, tubes, mixers, heat exchangers, reactors, filters & evaporators.	7,000 – 10,000
Pipeyard	Rust & varnish prior to recoal; dope & oil from pipe threads for inspection; drilling mud & debris (internal).	10,000 – 40,000
Power Plants	Nuclear: decontamination of fuel capsules, hand tools and equip.; scale removal from boiler tubes; Coal: fired flyash from preheater tubes, boiler or condenser tubes & turbines.	10,000 – 20,000
Pulp & Paper	Liquor, evaporator; drain lines. Wood pulp, oil, grease, pitch dirt from tubes, press sections of machines, suction rolls, heat exchangers, stock chests & lines.	5,000 – 20,000
Refineries	Coke, water scale, hard carbon & polymers in heat exchanger, pipe tanks & reactors. Paraffin, wax, grease & crude residues.	3,000 – 20,000
Rubber Processing	Latex, chemigum, SBR & water scale in reactors, storage tanks, conveyors, heat exchangers, pipe, tubing & facilities.	10,000 – 20,000
Steel Mills	Coke, water scale, ore or lime in heat exchangers, boilers, flues, open hearths, furnaces; chutes & hoppers; extrusion & billet descaling.	10,000 – 20,000
Surface Preparation	Salts, rust, paint, refractory buildup, concrete & marine growth to "white metal" surface.	20,000 – 50,000