Surface Preparation.
Industrial:

Industrial applications include petrochemical plants, bridges, and other industrial steel structures.

Surface Prep - Industrial Applications

Waterjetting provides a non-disruptive method of coating removal or chemical build up, which easily benefits both the structure and the plant owner. You can work on structures without shutting down operations.

Also, waterjetting is optimal for cleaning in petrochemical plants. No other cleaning process has the ability to remove the extremely hard materials that are found in fouled heat exchanges, mixing vessels and cat crackers.

In addition, major industries such as petroleum, power generation, construction and industrial cleaning contractors have found that UHP offers the lowest cost and best environmental solutions they need.

Waterjetting works extremely well for removal of waterproofing membranes on concrete, and for the removal of concrete itself. It has the ability to selectively remove deteriorated concrete while leaving the sound concrete intact.
Marine

Faced with tightening regulations and a more competitive work environment, the marine industry demands an alternative industrial cleaning process to abrasive blasting. Whether cleaning for shipyards or at sea, the marine industry has embraced UHP water jet technology for the environmentally sensible solutions it provides.
Offshore

Waterjetting offers valuable benefits for offshore owners. It eliminates all of the associated media costs, including transport, storage, and disposal of grit blasting media. Additionally, it virtually eliminates the need for containment and reduces the risk of contamination of sensitive equipment on your rig, such as turbines and compressors. Waterjetting is preferred and specified by all major oil companies. They recognize the benefits waterjetting provides and understand the value of the cleaner surface (providing better coating adhesion and longer life) that a waterjetted surface provides.
Comparison Between Grit Blasting & UHP Water Jetting

Grit blasting causes high valleys & peaks.

Grit penetrates the surface cleaning only the surface area of the actual particle, making it very inefficient in low volume. High Volumes are environmentally unfriendly & very expensive to dispose of.

Steel to be prepped

Grit Blasting Method

salts & contaminants get driven into the deeper valley's created by the grit blasting method. Leaving the surface not fully clean. Once a coating goes on—top of this it seals the salts & contaminates inside guaranteeing failure of the coating.
Comparison Between Grit Blasting & UHP Water Jetting

UHP water jets penetrate the surface initially, makes contact with steel surface leaving more gradual peaks & valleys, as it ricochets off the surface it lifts the existing coating & contaminates from the steel surface, removing the coating in flakes & larger particles. This makes UHP far more efficient in cleaning, taking the steel right down to its original prepared surface. Because there are no added particulates or contaminates UHP is extremely environmentally friendly & on average 10% of the cost to dispose of the waste materials.

UHP water jetting creates a smoother surface with more gradual valleys & peaks. no left over salts, contaminates or grit to give a perfectly clean surface for new coatings, prolonging the life span & performance.

UHP Water Jetting Method