

## Application Report No. A 05-4e

# Removing Rust and Paint with Water / Sandblasting

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### The Water-Sandblasting Method:

A cleaning method which is very often used is the addition of sand or other abrasives to the high pressure water = Water-Sandblasting.

In more and more countries, the use of pure sand only is either forbidden or is considerably restricted by law; in these countries the water-sandblasting method is a possible alternative. The working tool comprises a high pressure gun onto which an injector is mounted and through which abrasive material (sand, quarry sand, blast furnace slag, etc.) is added to the water jet.

As a basic rule it can be said that the higher the working pressure, the lower the amount of additives is required. The latest generation of injectors are suitable for jetting at a working pressure of between 500 and 1000 bar.

The water-sandblasting method is absolutely dust-free.



- Surface after water sandblasting, blank and roughened
- Storage vessel for the abrasive material

Steel surfaces treated in this manner are optically perfectly acceptable. All traces of the old paint layers and rust can be removed. Nevertheless, stubborn scale layers cannot be removed by this method - it is there for extremely difficult to get a degree of cleanliness certified to comply with the requirements of WJ 1.

Furthermore, the time required for treating a given area is far greater than when using working pressures of 2000 - 2500 bar. (Refer to our Report A-1e).