



QUILL FALCON CYCLONE DUSTLESS CYCLONE SYSTEMS

INDEPENDENT SOLUBLE SALT TESTING

Soluble salts, like chlorides and sulphates, are found on surfaces everywhere. These salts pull moisture from the air, causing protective coatings to fail. They can also be the cause of degradation of the substrate. Left unchecked, the surface contamination can corrode into deep pockets, making decontamination even more important and challenging. Lost productivity from protective coating failures are costly, and the failures can be hazardous.

The Quill Falcon Cyclone System rapidly removes coatings, corrosion and residues from a wide variety of surfaces whilst micro-washing away soluble salts and chlorides leaving a clean, contaminant free surface which is profiled to SA 2¹/₂, HB 2¹/₂, SB 2¹/₂, NACE VIS 9, WAB 6/10 in seconds.

Dyne Testing, a surface measurement technology specialist, independently conducted a series of tests for establishing the salt contamination and surface cleanliness of a 20 year old piece of heavily corroded steel from a London tidal dock (Image 2).

Dyne Testing used a magnetic soluble salt contamination meter (SSM) from Hedon to carry out the tests. The Hedon SSM establishes surface cleanliness and determines salt contamination equivalent to the bresle test. The SSM was applied to the heavily corroded steel prior to blasting and recorded a reading of 181 microsiemens per cm showing that the steel contains large amounts of soluble salts (Image 1).

The test piece was then blasted using the Quill Falcon Cyclone 60 System using garnet as a blast media, the Hedon SSM was then re-applied to the blasted test piece where a 0 microsiemens per cm was recorded indicating that all soluble salts had been removed from the surface (Image 3).

Generally coatings companies recommend surfaces to be below 77 microsiemens per cm for optimum results. The Quill Falcon therefore not only excels at micro-washing away soluble salts and chlorides it also profiles surfaces providing a key which allows the best possible bonding strength to be achieved with future surface coatings. But don't just take Dyne Testing's word for it, here's what a few coatings companies had to say about the Quill Falcon...

"Surface preparation with the Quill Falcon Cyclone System is preferred to dry blasting as it removes more chlorides (salt) and thereby facilitates a longer life span of our coatings. To our knowledge the Quill Falcon Cyclone System is the most cost effective and environmentally friendly type of surface preparation available"

Wasser High Tech Coatings, Europe

"We recommend the Quill Falcon as the best system for surface preparation which we have found. With a profile of SA2¹/₂ on the finished surface the durability of the coatings applied is extended by up to three times."

Ameron Coatings, Europe



IMAGE 1
Before Blasting



IMAGE 2
Soluble Salt Meter

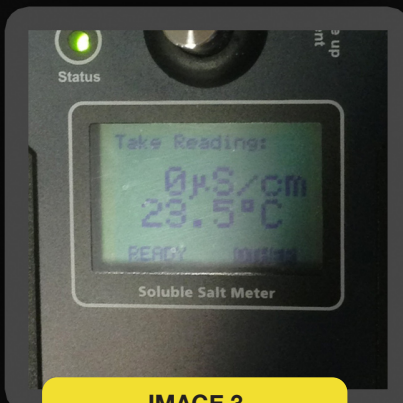


IMAGE 3
After Blasting



For more information on the Quill Falcon Cyclone System please contact:
Quill International Group, Castle Lane, Melbourne, Derbyshire, DE73 8JB (UK)
T +44 (0) 1332 864664 F +44 (0) 1332 863292
E sales@quillinternational.com W www.quillinternational.com