Victory Electrostatic Sprayer

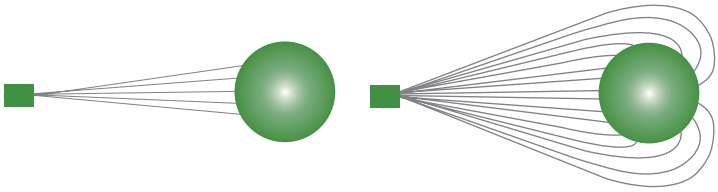
Electrostatic Efficacy Test

Electrostatic sprayers provide an electrical charge (positive or negative) to a solution that is being sprayed on to surfaces or objects. All particles being sprayed are charged with the same polarity, meaning they will repel each other maintaining equal distance and size as they are projected towards a surface. The charged particles have a force up to 75 times that of gravity, creating an aggressive attraction towards the object being sprayed versus falling due to gravity. The charged particles do not land on each other, so they evenly spread out across the surface providing uniform coverage of the solution. The charge also allows the particles to seek hard-to-reach areas and wrap around surfaces where normally sprayed materials cannot reach.

VICTORY'S PATENTED ELECTROSTATIC TECHNOLOGY

Victory's patented double charge technology starts by positively charging the solution in the tank as soon as the unit is turned on. When the operator pulls the trigger, the positively charged solution gets a second charge prior to becoming atomized. All Victory sprayers are equipped with a patented tri-nozzle design allowing the operator to select the desired spray pattern and particle size for optimal coverage and dwell times. Refer to the chemical manufacturer's recommendation for dwell times.

The Electrostatic Difference



Conventional Sprayer | Victory Sprayer

When a positively charged solution is sprayed through the Victory Sprayer, the solution seeks out and will wrap around surfaces.

There is no need to touch or wipe the surfaces (dependent on the solution being spraying). This provides a fast and effective application method, while using less solution.

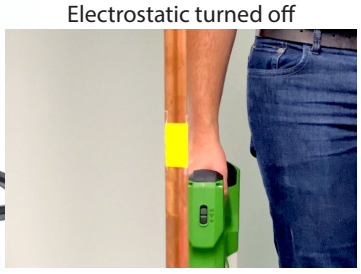
ELECTROSTATIC COVERAGE TEST

The majority of chemical solutions are clear (and dry clear) making it difficult to see total coverage on a particular surface and how well the patented electrostatic technology can wrap around the given object. When the electrostatic technology is turned on the effect is visible by swiping a finger on the surface to clearly demonstrate even coverage and wrapping around the surface by the moisture present. This method doesn't demonstrate how well Victory's patented technology evenly coats a surface and wraps around an object more efficiently saving time and costs.

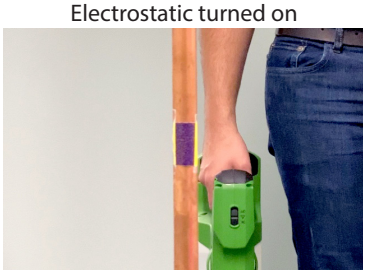
SpotOn water-sensitive paper by *Innoquest Inc.* is a special paper designed to easily and quickly demonstrate spray coverage. Sensitive to moisture, the yellow paper turns blue wherever spray reaches it allowing for quick and easy spray visualization. This paper can demonstrate coverage and distribution by looking at how many spots turn blue compared in a given square inch. The more blue dots visible the better the coverage of the solution on the surface. Conducting a simple test with the *SpotOn* water-sensitive paper it is easy to show how well Victory's patented electrostatic technology can wrap around a surface and provide optimal coverage of the solution.

In the figure below, we placed one strip of the water-sensitive paper on the back side of an object and sprayed the front side with the electrostatic technology turned off. The picture clearly demonstrates there is zero coverage of the solution as the water-sensitive paper remained yellow and no visible blue dots are present. In the second image, we turned the electrostatic on and sprayed the same object in the same manner as the prior test. The paper turned blue demonstrating the electrostatic wrapping technology and even coverage of the solution on the back side of the object.

Electrostatic turned off



Electrostatic turned on



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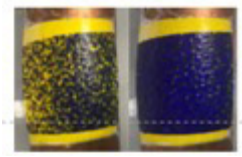
Victory Electrostatic Sprayer

Electrostatic Efficacy Test

These screenshots are taken from a video demonstrating Victory's patented electrostatic technology.

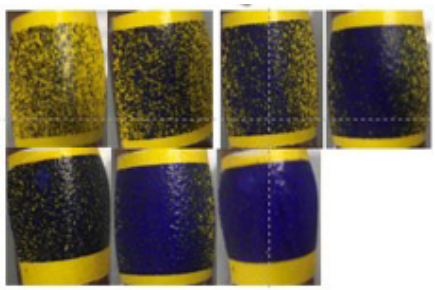
Using the same test standard and procedure, we compared Victory's patented double charge technology against two other electrostatic spraying manufacturers. The images below clearly demonstrate Victory sprayers will provide better and more consistent spray coverage in less time and spray passes, reducing cost of labour and chemicals.

Victory Sprayers



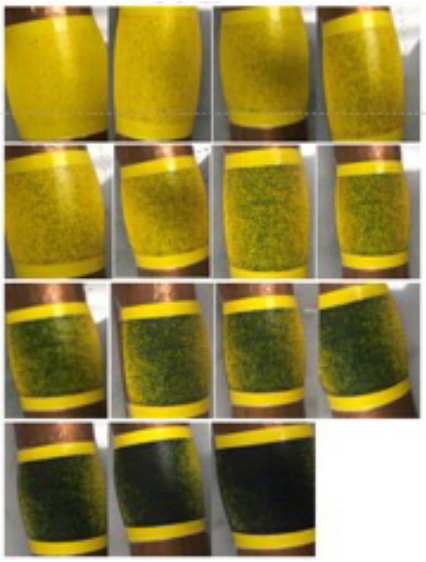
2 PASSES

Competitor A



7 PASSES

Competitor B



15 PASSES

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