What is electrostatic atomization?

This method is based on the principle that negatively charged objects are attracted to positively charged objects.

Parts grounded
The parts to be painted may be attached to a hook or conveyors, which are properly grounded.

Pieces conductives
The pieces to be coated should be or be made conductive. To achieve this, the object can be sprayed with a conductive primer or a metal object may need to be placed behind the object to create a ground.

Enveloping effect
The atomized paint surpasses the grounded piece and takes the opposite direction, managing to cover the back of the piece, as well as its edges.

Work area
If the painting job is not going to be done in a cabin, just choose a ventilated area to work and double check that the heaters have been turned off.

Operators safety
The operator should be protected with special clothing to cover his/her skin. Eye and ear protection must be worn as well.

Operators grounded
Operators should wear bracelets or straps for the feet, so they can be sure of being grounded.

Shoes
Operators should not wear rubber boots or shoes, as these would prevent them from making contact with ground.

Prepare the place and the operator
The area where is going to take place the painting operation should be clean and free of any disturbing element that could disturb your application. The operator should be protected.

Select the right paint
Choose between two possible paintings: powder and liquid. The material to be sprayed and the appearance you are looking for is decisive to choose which one to use.

Test the spray gun
Usually, a spray gun test should be done. But with electrostatic atomization a double test is recommended: a first one with the electrostatic off and a second one with the electrostatic on.

Paint
Try to cover the materials to be painted in an even way. Check now and then how is it going.

Clean the spray gun after the job
Once the painting job is done, a comprehensive cleaning of the spray gun should be performed. Follow the manufacturer instructions as they are explained in the model’s manual.

How electrostatic atomization works?