

Electrostatic Spraying

Application of Powder coating by Electrostatic Spraying

The electrostatic application of the powder coating to the part starts with the fluidisation of the powder.

Fluidisation is a pneumatic mobilisation process for powder coating by which the powder can be pumped from its container to the powder coating gun.

The powder coating supplied to the guns is charged using either the corona (ion bombardment) or the tribo-electric (friction) charging mechanism.

The charged powder coating moves towards the earthed work piece substrate with the help of the air supplied to the guns.

When the powder coating particles nears the substrate, adhesion takes place due to the electrostatic attraction between the charged powder coating particles and the earthed substrate.