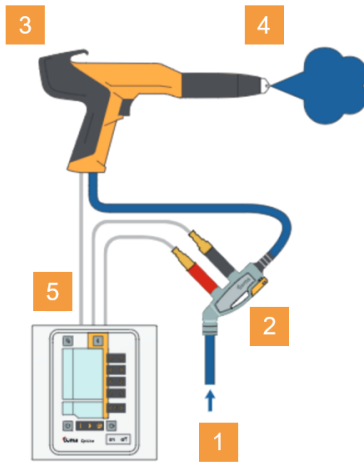


# The electrostatic Spray process

The **dry coating powder** is filled into a **powder hopper (1)**, **fluidized (2)** and conveyed by means of compressed air to the **spray gun (3)**. One or more **electrodes (4)** on the front of the powder gun **charges the powder** to high voltages (tens to hundreds of kV) when sprayed (**5 – system controller**). An electric field is created between the powder gun and the grounded work-piece. The **powder particles follow these electric field lines** and remain adhered to the object due to its residual charge; the curing step induces particles melting to create a continuous coating layer.



Gema EPC commercial system.