

# Powder and Paint



**SurfacePrep UK** has consistently been the leading manufacturer and supplier of abrasive blasting equipment and surface finishing equipment. Our product portfolio ranges from blasting equipment and abrasives to spray and powder coating. We supply a range of surface preparation inspection equipment as well as powder coating plants and spray booths.

**SurfacePrep UK** is part of the wider **SurfacePrep** group, which is the largest network of regional distributors of surface finishing equipment in North America and Europe.

Our experience in the finishing equipment industry have allowed us to apply our design and manufacturing expertise into each piece of equipment we produce and provide the best solutions for your needs to help you produce outstanding finishing results.

## Pre-Treatment Systems

To ensure the best painted surface quality for metals, the pre-treatment prior to painting is essential to improve the adhesion of the paint and improve corrosion resistance. The surface treatment consists of phosphating with Iron or Zinc, chromating, oxalate or anodizing. Our systems provide a solution for phosphating and similar processes.



## Dry-Filter Spray Booth

A dry filter spray booth typically extracts air from the painting area through a dry filter media and

exhausts to atmosphere. There are different types of filter media. We primarily offer the Andreae and Binks type concertina folded paper filters.

## Powder Booth

Our powder booth extracts air from the painting area through a series of cylindrical cartridge filters located behind perforated screens. This cleans the air and leaves the powder on the outside of the filters. The filters can be cleaned by a blast of air from inside the filter blowing the powder off for collection into the base of the booth. For those using just one colour, the powder can be reclaimed and used again. The exhaust air from the booth is clean and can vent back into the room or be ducted out to atmosphere.

# We Deliver Results Beyond The Surface



## Water Wash Booth

Our water wash booths provide a constant vertical wall of water for the airflow of the booth to impact against. The water washes away any airborne particles into a collection tank in the base. Chemicals are typically added to separate the paint from the water so it can be skimmed off at intervals.

The booth airflow is sucked under the water screen and up through the back of the booth through a scrubber system to remove any airborne contaminants and deposits them back into the water.

As a secondary precaution the air is sucked through eliminator screens to remove any other contaminants that may still be in the airflow. The booth is exhausted to atmosphere.

One pump recirculates the water to the scrubber system and water screen.

The base tank is stainless steel and provides multiple removable mesh screens to prevent any large build ups getting into the pump. The body of the booth is available in either galvanised steel or stainless steel.



## Drying and Curing Ovens

Curing ovens are high temperature ovens typically used for curing powder coated finishes, around 200°C - 230°C.

Drying ovens are lower temperature ovens or drying rooms used to dry products after painting or after

cleaning processes such as after pre-treatment. These can be as low 40°C up to 150°C.

They typically heat recirculating air using a gas burner or electrical element. A small bleed of air is taken from the oven to maintain pressure and help remove any gases released from the heating process. Pressure relief is built into each oven to prevent explosion.

All ovens have insulated walls with thermal breaks designed to help keep the outside of the oven cool.

## Paint Kitchen

Providing a down draught of air through roof mounted filters and a low level extraction to keep fumes out of the breathing zone. LED lighting to the roof behind sealed glass panels to IP54 from inside the room.

Drip trays can be supplied to the floor to contain any leaks and rails for the wall for mounting mixing pumps.



**SurfacePrep**