



## Paint Killer Chemical Program

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Product Category	<ul style="list-style-type: none"> <li>● Paint Killer Chemical Program</li> <li>● Paint Removal Labour</li> <li>● Water Curtain Chemical Management Program</li> </ul>
Application	<ul style="list-style-type: none"> <li>● Paint booth management ie. cleaning and maintenance</li> <li>● Spray booth management ie. cleaning and maintenance</li> <li>● Solvent and putrid odour control</li> </ul>
Key Function(s)	<ul style="list-style-type: none"> <li>● Less paint stickiness in paint booth</li> <li>● Less odour in recirculating water in paint booth</li> <li>● Extend service life of recirculating water in paint booth</li> </ul>

A water curtain in a paint booth is a system used to help control overspray, improve air quality, and maintain a cleaner environment within the booth. This technology is commonly found in paint booths used for automotive, industrial, and other coating applications.

### How the Water Curtain Works

The water curtain consists of a series of water droplets or streams that are sprayed across the intake or exhaust area of the booth. The curtain acts as a barrier that captures and removes paint particles, dust, and other contaminants from the air. These particles are then carried by the water into a filtration system or collection area.

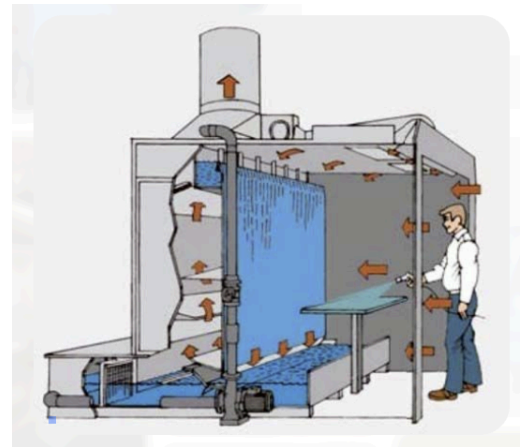
### Key Functions of a Water Curtain in a Paint Booth

#### 1. Overspray Capture

- When spraying paint, overspray (the fine mist of paint particles that doesn't land on the intended surface) can drift throughout the booth. The water curtain captures this overspray, preventing it from spreading into the air or onto surfaces where it could cause defects or contamination.

#### 2. Air Filtration

- The water curtain helps to filter the air within the booth by trapping airborne paint particles. The water droplets or mist create a physical barrier that prevents particles from circulating, thus improving the air quality inside the booth and minimizing the risk of contamination on freshly painted surfaces.



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### 3. Improved Ventilation

- The water curtain can assist in improving ventilation by controlling the flow of air within the booth. The curtain is often placed at the intake or exhaust areas of the booth, contributing to an effective airflow system that helps to draw clean air into the booth while removing contaminated air.

### 4. Cleaner Working Environment

- By trapping overspray and particles, the water curtain helps to keep the booth environment cleaner. This reduces the need for constant cleaning of surfaces within the booth and reduces the risk of cross-contamination between different paint jobs.

### 5. Enhanced Worker Safety

- The water curtain reduces the amount of airborne paint particles in the booth, which is essential for worker safety. Paint fumes and particles can be harmful if inhaled, so capturing these particulates ensures that workers are exposed to fewer toxins. This also helps maintain a safer working environment by reducing flammability risks associated with airborne paint solvents.



However, water curtain performance could not be achieved to capture overspray if there is no proper Paint Killer program. Overspray paint is by nature a sticky paint once the water curtain has captured it until becoming saturated with paint droplets, water curtain needs to be thrown out or disposed of. This has made the water change become evitable. Not only that, sticky paint droplets could adhere all over the places in relevant equipment and parts of paint booth. Eventually, the parts and equipment could not function well and paint booth could not ventilate the air.

With the right Paint Killer program, water curtain could be recirculated and reused for many cycles, several months, or even over a year.

### Benefits of a Paint Killer Program

Paint Killer program consists of

- **Paint Killer Chemical** which is a reactive reagent which could react with paint droplets and change the paint characteristics from stickiness to non-stickiness. This has formed single paint particles with non-stickiness and could not adhere on the part or equipment of paint booth.
- **pH Adjuster** which will create an environment for Paint Killer Chemical to perform, slightly under alkaline condition.
- **Flocculating Polymer** which could help to accumulate small paint droplets, leading to the floatation of the paint large droplets. Booth workers can therefore remove and skim the floating paint droplets.

For large Paint Booth, all the Paint Killer chemicals are dosed by using automatic metering pumps, by which Stellar Unity will provide it for free, together with its technical service engineer to install and monitor the dosing scheme and run a troubleshooting program when problem evolves.

Stellar Unity has collaborated with large and renowned Paint Killer service company from Japan who has been in the field for many years. The Paint Killer program can be tried at the booth of the customer. Operation cost of Paint Killer program can be estimated, in exchange for the water curtain to perform nicely. With water curtain to function well, quality of paint jobs could be attained at maximum.

### Moreover, Stellar Unity can be at your service to perform maintenance job of your Water Curtain System

Regular maintenance is essential to ensure the water curtain system continues to function effectively. This includes:

- **Cleaning the Water Tank:** The water used to capture overspray should be regularly filtered or replaced to avoid contamination buildup.

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- **Water Quality:** Ensure that the water in the system remains free of chemicals, rust, or other impurities that could affect the performance of the system.
- **Inspecting Water Nozzles:** Water nozzles should be checked for clogs or damage to ensure that the curtain is being formed properly.
- **Maintenance work for ventilation system:** With our professional engineer, we could make sure to ascertain to our customers that the filtration and ventilation system have been cleaned, changed, and monitored effectively.



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