



Finishing Technologies

PRE-TREATMENT CHEMICALS

Why do you need Pre-Treatment chemistry?

Without effective Pre-Treatment equipment and chemistry your finished goods will look and perform below standard.

This is true for either Metal, Plastic or Composite components and if untreated or sub standardly treated the nett finished goods results in:

- Poor paint adhesion
- Poor quality of finish
- Poor performance
- Increased rework & reject rates
- Increased costs of powders and paint
- Increased energy costs
- Increase of waste disposal

These factors reduce your competitiveness and quality within your market, so reducing customer retention and standing within your market sector.

Welcome to the AWT solution

At Advanced Water Technologies, we have developed a comprehensive Finishing treatment range of chemicals for effective management, improved performance and reduced environmental impact, whilst keeping your system operating safely and efficiently.

These chemicals can be split into three distinct categories:

- 2nd Generation Pre-Treatment Chemistry – typically Iron & Zinc phosphates operating at 45oC plus, with a heavy alkaline or hot degreasing agent.
- 3rd Generation Pre-Treatment Chemistry – typically zirconium salts operating at 25-35oC, with alkaline or acidic or neutral degreasers
- 4th Generation Pre-Treatment Chemistry – metal oxides operating at ambient temperatures, with acidic or neutral ambient degreasers.

Benefits to converting to modern technology

- Improved adhesion and finish – salt spray results typically increase by upto 50%
- Reduced paint requirements – thickness of paint required is reduced
- Reduced operating costs – energy, water, cleaning
- Reduced rework & rejects

And because we are compliant with the latest legislation and regulations, particularly in the areas of health, safety and the environment, you can be sure that the solution we deliver will be high quality, reliable, cost effective and tailored to meet your exact requirements.

Chemicals we use in our pre-treatment plants

- Iron Phosphates
- Zinc Phosphates
- Zirconium Salts
- Metal Oxides
- Sealers
- Alkaline & Acidic degreasers
- Neutral detergents
- Antifoams



For a professional evaluation of your Finishing Production Process call **Advanced Water** now on **01925 713 273**

Paint Booth + Advanced Water Technologies = Water Safety & Success

Why do you need a paint booth treatment?

If left untreated, paint sludge from your paint booth system creates a contaminated and unhygienic problem which can:

- Clog pipes and pumps
- Disrupt air balance
- Create safety hazards
- Increase cleaning frequency and costs
- Increase bacterial load
- Increase system corrosion
- Increase foaming tendency
- Disrupt sludge handling and removal

These factors reduce efficiency, put your system at risk, shorten plant life, create costly down time and waste energy, chemicals and water charges. Spray booth systems are also excellent breeding grounds for many types of biological growth. Left untreated, bacterial and fungal slimes can lead to high risks from Legionnaires' disease and booth odour problems.



Welcome to the AWT Solution

At Advanced Water Technologies, we have developed a comprehensive paint booth treatment programme for effective management, improved performance and to keep your system operating safely and efficiently.

These services include:

- Maintenance
- System changes
- Chemical supply
- Site specific programmes and service schedules
- Waste disposal services

And because we are compliant with the latest legislation and regulations, particularly in the areas of health, safety and the environment, you can be sure that the solution we deliver will be high quality, reliable, cost effective and tailored to meet your exact requirements.

- Chemicals we use in our paint booth treatment
- Cleaning chemical
- Polymer denaturants
- Alkaline denaturants
- Buffering agents
- Separating flocculant
- Legionella Specific Biocides

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Head Office

Advanced Water Technologies Ltd

2 Webster Court
Carina Place
Gemini Business Park
Warrington
Cheshire
WA5 8WD

T: 01925 713 273

F: 01925 713 483

E: info@advanced-water.co.uk
www.advanced-water.co.uk

Regional Office

Advanced Water Technologies Ltd

Unit 6
Midland Court
Midland Way
Barlborough
Derbyshire
S43 4UL

T: 01246 813 110

F: 01246 819 064

E: info@advanced-water.co.uk
www.advanced-water.co.uk