ColourShield Water-Based Coatings vs Traditional Two-Component Isocyanate Coating Systems

Why More Graphics Professionals Are Choosing ColourShield

For many years, two-component isocyanate coating systems were considered the benchmark for durability in demanding applications. However, advances in water-based coating technology have enabled modern products such as ColourShield to deliver exceptional protection and durability without the complexity, waste, health concerns and environmental burden associated with traditional two-component systems.

For printers, converters, vehicle graphics specialists, wallcovering manufacturers, exhibition contractors and retail branding professionals, the practical advantages of ColourShield are significant.

Ready to Use – No Mixing Required

Unlike two-component coating systems, ColourShield is supplied ready for use.

There are no hardeners to add, no mixing ratios to calculate and no risk of performance issues caused by incorrect preparation.

Benefits:

- Faster production workflows
- Reduced operator error
- Consistent coating performance
- Simplified training requirements
- Improved productivity

Reduced Waste and Lower Operating Costs

Two-component coatings have a limited pot life once mixed. Any unused material often has to be discarded, increasing waste and operating costs.

ColourShield can be used as required without mixing, allowing operators to use only the quantity needed for each job.

Benefits:

- Reduced coating waste
- Lower material costs
- Improved production efficiency

- Better stock management
- Reduced disposal costs

Faster Production and Increased Throughput

In many graphics production environments, speed is critical.

ColourShield coatings can often become touch dry within minutes, allowing faster handling and processing of printed materials.

Traditional two-component coatings generally require longer curing times and additional space for drying and curing.

Benefits:

- Increased productivity
- Faster turnaround times
- Reduced work-in-progress inventory
- Better utilisation of production space

Improved Health and Safety

ColourShield coatings do not require isocyanate hardeners.

This eliminates many of the health and safety concerns associated with handling, mixing and applying isocyanate-based products.

Benefits:

- Safer working environment
- Reduced operator exposure to hazardous chemicals
- Simplified handling procedures
- Reduced PPE requirements
- Easier staff training

Better Environmental Performance

As a water-based technology, ColourShield offers a significantly lower environmental impact than many traditional solvent-based or isocyanate-containing coating systems.

Benefits:

- Lower VOC emissions
- Reduced hazardous waste
- Supports sustainability initiatives
- Improved environmental credentials
- Easier compliance with environmental policies

Specifically Designed for Graphics Applications

Unlike many two-component coating systems originally developed for industrial and automotive applications, ColourShield is engineered specifically for the visual communications market.

Ideal Applications:

- Vehicle graphics
- Vehicle wraps
- Fleet graphics
- Truck curtainsiders
- Wallcoverings
- Phototex wall graphics
- Retail branding
- Point of sale displays
- Exhibition graphics
- Museum graphics
- Interior décor graphics
- Window graphics
- Promotional displays

ColourShield Advantages at a Glance

ColourShield Water-Based Coatings	Traditional Two-Component Coatings
Ready to use	Requires mixing
No pot-life limitations	Limited pot life after mixing
Reduced waste	Higher material wastage
Fast drying	Longer curing times
No isocyanate hardeners	Requires isocyanate hardeners
Low odour	Stronger odours
Water-based technology	Often solvent-based chemistry

ColourShield Water-Based Coatings	Traditional Two-Component Coatings
Easier operator training	More complex handling
Lower environmental impact	Greater environmental burden
Designed for graphics applications	Often designed for industrial use

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The ColourShield Difference

ColourShield provides the durability required for graphics, vehicle graphics, wraps, truck curtainsiders, wallcoverings, décor and branding applications without the complexity, waste, health concerns and environmental burden associated with traditional two-component isocyanate coating systems.

For today's graphics industry, ColourShield delivers a smarter, safer and more sustainable approach to print protection.