



# Fluid Color Kaleidoscope Ink R853 Series Data Sheet

The R853 Series ink is specifically developed for use with UV-curable printers using Ricoh MH5420 (Gen5) Printheads and Mercury lamp technology. The ink is formulated for use in a wide variety of applications with adhesion to a broad range of flexible and rigid substrates with excellent resistance to edge chipping when using knife or router cutting.

## Typical Applications

- Retail & POP Displays
- High End Retail Displays
- Trade Show Graphics
- Outdoor & Event Banners
- Outdoor Displays & Signage
- Packaging & Corrugated Displays
- Floor Graphics
- Window Graphics
- Custom Product Manufacturing

## Typical Substrates

- |                           |                     |
|---------------------------|---------------------|
| Basic Foam Board          | MDO Board           |
| Premium Foam Board        | Magnetics           |
| PVC                       | Paper               |
| Polystyrene               | Outdoor Banner .    |
| Corrugated Plastic        | Indoor Banner       |
| Polycarbonate             | Self Adhesive Vinyl |
| Acrylic                   | Window Coverings    |
| Corrugated Cardboard      | Backlit             |
| Aluminum Composite Panels |                     |

## Outdoor Durability

2 years outdoors un-laminated, 4 years laminated\*  
*\*Many factors influence outdoor durability including weather conditions, exposure, substrate characteristics and proper curing.*

## Storage

Store Ink and Flush at 65° - 80° F away from heat, sparks and flames.  
 Shelf life is 12 months from date of manufacture.

## Environmental Operating Specifications

Temperature - 65° - 80° F  
 Humidity - 40% - 60% Optimum  
 (30% - 70% Operational)

## Handling

Use gloves and eye protection when handling this product. Clean up all spills immediately. If ink does come in contact with skin, wipe off with a clean, dry cloth (do not use solvent or flush solution). Wash the affected area with soap and water. Contact Fluid Color at support@fluidcolor.com for further information, warning and SDS sheets.

## Printhead Care

### Daily Maintenance

Purge and wipe printheads each morning, at mid-shift, at end of shift, if idle for more than 30 minutes and when print quality defects arise.

### Overnight shutdown

Shut off the ink valves. Turn off printer.

### Weekend shutdown (Up to 4 days)

Shut off the ink valves. Turn off printer.  
 Restart Printer after weekend.  
 Wipe Printheads with Fluid Color R851 Cleaning Fluid.  
 Purge and wipe printheads..

### Short-term shutdown (Up to 7 days)

Put printheads on a wet pad.  
 See User Guide, 15.29 - Short-Term Printhead Storage.

### Long-term shutdown (7 days or longer)

Flush and fill printheads with  
 Fluid Color R851 Conversion Fluid.\*  
 Shut off ink valves. Turn off printer.

*\*Requires specialized tools and training. Contact your Dealer or Fluid Color for assistance.*

## Part Numbers

- (FC-R853-C) Cyan - 1L
- (FC-R853-M) Magenta - 1L
- (FC-R853-Y) Yellow - 1L
- (FC-R853-K) Black - 1L
- (FC-R853-W) White - 1L
- (FC-R853-V) Varnish - 1L
- (FC-R851-CF) Cleaning Fluid - 1L