



# COLD FIRE CURE Cationic UV Curing Process

- REVOLUTIONARY TECHNOLOGY -

## What is Cold Fire Cure™?

Cold Fire Cure™ is Gerber's unique UV curing process that uses low energy and lower temperatures to cure the proprietary GerberCAT™ cationic inks. This dramatically expands the range of materials the Solara ion can print including heat-sensitive plastic, vinyl, fabric, and paper-based materials without concern for ink adhesion or material damage.

The combination of Cold Fire Cure and GerberCAT cationic UV inks makes the Gerber Solara ion™ the most versatile printers in the world. The versatility of the Solara ion opens the door to a huge set of applications such as real estate signage, POP, vehicle applications, backlit, traffic signage, exhibit display, banners and textiles, and packaging applications, all through one printing system.

## Why is Cold Fire Cure different from other inkjet curing processes?

Cold Fire Cure offers significant benefits over any competitive curing process through its low cost of operation, material and environmental health and safety compatibility. The Solara ion's UV lamps are not considered a "consumable" and use at least 25% less energy than other UV curing lamps.

This innovative technology cures only GerberCAT cationic UV ink and does so at approximately room temperature and the lamps are the width of the flatbed table and therefore providing complete curing throughout the print. Unlike traditional UV ink jet printers, which use significantly smaller lamps that reside on the print head carriage curing only as they go. In addition, the Cold Fire Cure lamps do not require a burn-in period and there is no strike impact.

Performance Properties	Traditional Mercury Vapor	NEW Cold Fire Cure™
Generates environmental ozone	Yes	No
Lamp cost	High	Low
Lamp life	Very Low	Very High
Material compatibility	Moderate	Very High
Generates heat on material surface	Yes	No



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## - KEY FEATURES -

### **Materials supported by the Gerber Solara ion:**

The unique lamp technology of Cold Fire Cure generates minimal heat on the surface of the material, approximately temperature, unlike traditional UV ink jet printers which will generate as much as 350-400°F on the material surface. This means the Cold Fire Cure technology will support a much wider range of materials, including biodegradable substrates, corrugated paper, corrugated plastic (i.e., Coroplast™), paper products, thin styrene materials, thin Lexan™, and many more. This means your options for materials are broader than they've ever been before, so you can serve all of your existing and new customers' needs on one machine.

### **Go green with Cold Fire Cure Technology:**

- No ozone—  
The UV lamps used in the Gerber Solara ion create no ozone, unlike the high-pressure mercury vapor UV lamps used in other printers.
- No VOC's—  
The Solara ion is emission-free and releases no volatile organic compounds into the air.
- Eco materials—  
The low temperature Cold Fire Cure uses less energy during printing than other high temperature UV-curable systems allowing you to use environmentally-friendly materials.

### **Life statement, warranty and service contract:**

The Cold Fire Cure lamps are covered for one year after sale, in addition to any year the Solara ion is under a service contract with Gerber. Gerber expects that the replacement rate on Cold Fire Cure lamps will be extremely low, achieving a useful life on the lamps of up to 4,000 hours. Competitive UV inkjet printers use high intensity, high heat mercury vapor lamps, which have a common useful life of 500 printing hours, including strike impact, and replacement costs range from \$500 to \$1500 per lamp. Over the life of the Gerber Solara ion the Cold Fire Cure lamp technology can easily save you thousands of dollars.