

## CryoPaint (Solvent-Based) Factsheet

### Product Overview

**CryoPaint (Solvent-Based):** A professional-grade, solvent-based radiative cooling paint designed for sky-facing surfaces like vehicle roofs and building rooftops. CryoPaint uses advanced Passive Daytime Radiative Cooling (PDRC) technology to lower surface temperatures by up to 15 °F below ambient air temperature, even in direct sunlight. Available in gallon buckets, this paint is ideal for industrial and large-scale applications.

### Recommended Use Cases

- **Flat Surfaces:** Best applied on flat surfaces with angles under 30 degrees, such as rooftops and vehicle roofs, to maximize cooling efficiency.
- **Construction Projects:** Suitable for both commercial and residential buildings to reduce internal cooling needs.
- **IoT Equipment:** Reduces thermal load on outdoor electronics and components, offering an eco-friendly solution to traditional cooling systems.
- **Electric Vehicles:** Reduces idle power draw and offsets AC usage, recovering up to 25% of the range lost due to heat.
- **Large Fleet Vehicles:** Improves comfort and safety for passengers and drivers by reducing heat exposure in vans, buses, and other large vehicles.

### Coverage & Application

- **Coverage:** One gallon covers **500 square feet** at optimal efficiency. This high coverage rate is designed for large surface areas, making it ideal for industrial use.
- **Application:**
  - **Coats:** Apply **3 medium coats** for optimal performance.
  - **Flash Time:** Allow a **20-minute flash time** between coats.
  - **HVLP Settings:** Use a **1.4 tip** on an **HVLP sprayer** with **20 psi** for best results.
  - **Technique:** Apply in **continuous, smooth movements** to ensure even coverage. Ensure the surface is clean and smooth; sanding may be necessary for better adhesion. An **adhesion promoter** is recommended for ease of application. Apply in shaded areas during cooler times or in well-ventilated, air-conditioned environments for optimal results.

## Safety Warning

**Read the SDS** carefully before use. This paint is **highly hazardous** and requires **maximum PPE** during handling and application. Always use **full-body protection**, including gloves, protective clothing, and a **full-face respirator**. Avoid contact with skin, and **do not inhale** the paint fumes. **Do not apply without a full respirator**. Handle with extreme caution.

## Ideal Use

CryoPaint (Solvent-Based) is designed for industrial and large-scale projects where cooling efficiency is critical. It excels in applications where traditional cooling methods are either impractical or add unnecessary complexity.

## Important Considerations

- **Performance:** Full and even coverage is required for maximum cooling effectiveness. Applying less than recommended will reduce the cooling efficiency.
- **VOC Level:** CryoPaint contains a higher VOC level. Always use proper ventilation and wear PPE during application to ensure safety. Follow local regulations regarding solvent-based paints.
- **Limitations:** CryoPaint works best on flat, sky-facing surfaces. Its performance diminishes significantly on angled surfaces over 30 degrees or in areas with overhead obstructions like trees or buildings. Ideal results occur in low humidity with minimal wind.
- **Practical Tip:** For maximum effectiveness, make sure the painted surface has a clear, unobstructed view of the sky. Use the 'Y' pose test: if you see only blue sky between your arms, CryoPaint will perform optimally.

## Maintenance

- **Self-Cleaning:** The paint is self-cleaning, with no routine maintenance required. To maintain optimal cooling, pressure wash or hose down the surface annually. Avoid abrasive cleaning, and pressure wash with minimum 1 ft nozzle distance.
- **Avoid Contact:** Avoid walking, driving, or placing objects on treated surfaces to prevent damage and contamination.

## **Touch-Up**

For touch-ups, use **CryoCan**, a spray version of CryoPaint, designed for small repairs. It ensures consistent cooling performance in case of damage or wear.

## **Pricing**

- **CryoPaint (Solvent-Based):** \$1000 per gallon (covers **500 square feet**, at **\$2 per square foot**).

## **Contact for More Information**

For more details or to place an order, please contact:

**Jordan Foucher, Founder & CEO, Cryo X Co**

Email: [jordan@cryox.co](mailto:jordan@cryox.co)

Phone: 714-914-3000