CryoPaint (Water-Based) Factsheet

Product Overview

CryoPaint (Water-Based): A water-based, eco-friendly radiative cooling paint that reduces temperatures on sky-facing surfaces like vehicle and building roofs. Available in gallon buckets, with quarts available upon request (www.cryox.co/contact), CryoPaint uses Passive Daytime Radiative Cooling (PDRC) technology to lower surface temperatures by up to 15 °F below ambient air temperature, even in direct sunlight.

Recommended Use Cases

- **Flat Surfaces**: Ideal for flat surfaces with angles under 30 degrees, such as building rooftops or vehicle roofs, to maximize cooling efficiency.
- **Construction Projects**: Suitable for commercial and residential buildings to reduce internal cooling needs.
- **IoT Equipment**: Reduces thermal load on critical components, potentially replacing traditional cooling methods while fitting within project budgets.
- **Electric Vehicles**: Offsets AC usage to recover lost range by up to 25%, while also reducing idle power draw.
- **Vans and Buses**: Increases comfort and safety for passengers, drivers, and cargo, even when the vehicle is off.

Coverage & Application

- **Coverage**: 1 gallon covers up to 120 sq ft at optimal efficiency, requiring approximately one ounce per square foot.
- **Application**: Apply using a standard house paint sprayer or roller. For best results, apply one to two layers, totaling one ounce per square foot. Ensure the surface is clean and, if too smooth, sand it to improve adhesion. An adhesion promoter is recommended for ease of application. Apply outdoors in shaded areas with lower ambient temperatures (nighttime or cooler daytime), or in well-ventilated, air-conditioned areas during high temperatures. Refer to the packaging for detailed instructions.

Ideal Use

Designed for scenarios where traditional cooling methods aren’t feasible or have more drawbacks than benefits. We excel in efficiency, safety, and comfort.

Important Considerations

- **Performance**: Maximum cooling benefits are achieved with full and even coverage; partial application reduces efficiency. We recommend 1 oz of paint per every square foot painted.
- **VOC Level**: Low VOC (15), making it suitable for environmentally conscious projects. Even with a low VOC, it is important to wear PPE and only paint in well ventilated environments.
- **Limitations**: Most effective on flat surfaces; performance decreases significantly on angled (>30 degree tilt) or vertical surfaces. Requires a clear, unobstructed view of the sky for optimal performance. Glass, clouds, buildings, and other overhead obstructions may reduce effectiveness. High wind speeds can also offset cooling effects, and low humidity is ideal for best results.
- **Practical Tip**: Make a YMCA 'Y' shape above your head; if there's only blue sky between your arms, it will work great. If there are trees, clouds, or other obstructions between your arms, performance will diminish. It requires a clear view of the blue sky.

Maintenance

- **Self-Cleaning**: No routine maintenance required. Pressure wash or hose down at least once per year for maximum performance. Avoid abrasive cleaning, and pressure wash with minimum 1 ft nozzle distance.
- **Avoid Contact**: Not suitable for high-contact or abrasive environments—avoid walking, driving, or touching the paint to minimize contaminants and damage.

Touch-Up

- Use **CryoCan** to easily repair and maintain the performance of CryoPaint layers.

Pricing

- **CryoPaint (Water-Based)**: $500 per gallon (≈ $4.17 per sq ft).

Contact for More Information

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

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