



### Allied PhotoChemical publishes article: "Mobile UV Market Review and Safety Guidelines" in the Winter issue of RadTech Report.

Allied PhotoChemical provides market leadership and guidance for new UV markets.

**MARYSVILLE, MI** – December, 2010 – Allied PhotoChemical, Inc. has written an article entitled: "Mobile UV Market Review and Safety Guidelines" for the industry-leading RadTech Report.

"Allied PhotoChemical has been providing UV Coating Solutions to the Mobile UV Market for several years," said Dan Sweetwood – Vice President of Sales. "And felt it was beneficial to provide a thorough market summary, as well as a review of the Safety Guidelines for the proper and safe use of this technology."

"The article combines realistic Mobile UV applications such as kitchen counter resurfacing and bathtub refinishing with a summary of the available application equipment," said Michael Kelly – CEO / President. "Then encompasses the proper safety aspects of applying the innovative technology in the real world."

For a copy of the article, please contact Dan Sweetwood at Allied PhotoChemical, Inc.

#### ABOUT RADTECH

RadTech International North America, a non-profit organization, is the association for the advancement of ultraviolet and electron beam (UV & EB) technology. RadTech serves as an industry forum, addressing the educational needs of the users and suppliers of UV and EB equipment and materials. Our members also represent end user companies in several industries including: Adhesives, Composite Applications, Converting/Packaging, Decorative Applications, Dental Restorations, Electronics/Electrical, Flooring, Graphic Arts (inks, high-gloss varnishes), Opto Electronics, Metals, Photoresists, Plastics, Rapid Prototype Parts Manufacture, Release Coatings, Steel Pipe, Tubing, and Wood Finishes.

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### Mobile UV Market Review and Safety Guidelines

By Michael Kelly

Ultraviolet (UV) technology has been utilized by manufacturing for several decades, ranging from wood flooring applications to the graphic ink marketplace. Many other markets utilize UV coatings to increase their production, reduce their energy costs and floor space, and provide an overall cleaner solution.

In 2009, 105,000 tons of UV coatings were shipped in the United States with many times this worldwide. UV applications can run the gamut, from bike frames and conduits to tire rims and concrete floors.

For the past several years, UV lighting technology has become reliable and new field applied markets have evolved. This is commonly referred to as Mobile UV. This article will provide a concise review of the Mobile UV marketplace, specific examples and

a review of the safety guidelines when utilizing this technology.

#### Mobile UV applications include:

- Bisket refinishing
- Countertop/Tile refinishing
- Flooring Concrete/UT/Wood
- Jet-Graffiti
- Touch-up applications
- Marinas
- Architectural
- Autobody refinishing
- And many others.

The question needs to be asked, "Why is UV technology being utilized in mobile applications?" The answers are diverse.

#### Economics of UV

The overall economics of Mobile UV eliminates wasted application time—mainly due to the fact that UV cures typically in less than a few seconds. This dramatically reduces the amount of spent time on-site at the customer's location, which provides for significant manpower cost savings.

- Most UV coatings utilized in these markets are 100% solids, which is defined as a coating that contains no solvent and no water or filler material. It also provides 1,604 square feet of coverage at 1 mil.
- Typical water-based coatings are 45-50% solids that provide 721.8 to 802 square feet of coverage at 1 mil.
- Typical solvent-based coatings are 95-98% solids that provide 481.2 to 551.4 square feet of coverage at 1 mil.

FIGURE 1

#### Examples of UV applications



### About Allied PhotoChemical, Inc.

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Allied PhotoChemical is a leading formulator and producer of UV – Ultraviolet Light-Curable Inks, Coatings and Paints, E-L's and specialty formulations, and focuses on the capabilities of high quality product development, application, customization to exploit the economies of speed. Allied PhotoChemical's products help customers achieve a premium "Return On their Investment and the Environment" by helping their process run **Faster, Smaller, *Cleaner.***

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