

UV Equipment Handling

FOR PROFESSIONAL USE ONLY

Introduction

UV curing products in the Vehicle Refinish market require dedicated curing equipment. This bulletin explains the safe handling of UV equipment.

Personal protection

Eyes: Avoid to look directly into the UV light source
 Always wear UV protective safety goggles.

Skin: Make sure exposed skin is covered

UV equipment handling

UV equipment is safe in use when operated according to the manufacturers' guidelines and instructions.



Some general recommendations can be given.

- **Avoid unnecessary exposure.**
- **Never use a HID lamp with a broken UV glass filter.**
- **Never look directly into UV light.**
- **Never point the UV light at someone else.**
- **Always use the recommended personal and operational protective measures.**

Experimenting with different light sources is associated with severe health risks.

Use of equipment in potentially explosive atmospheres

Spraybooths are zone 2 areas during the spraying operations. Therefore use of the UV equipment, which is not EX approved should be in compliance with local regulations, this should be verified before using the equipment.

It's required that safety systems and procedures are in place by using integrated spraybooth systems. Integrated systems need to ensure that sufficient purging of the painting (zone 2) area is achieved.

Thermal Safety

High Intensity Discharge lamps produce heat that may cause an high temperature at the lamp filter surface. It must be avoided that the filter comes near to or in direct contact with potentially flammable surfaces, e.g. masking paper or the spraybooth floor paint filters.

Waste; UV bulbs/ tubes must be handled as chemical waste.

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Maintenance of the equipment

Regular inspection and cleaning of the UV filter glass on the high intensity discharge (HID) lamps is necessary to secure maximum UV output. The UV-output will drop significantly in case of contaminated glass filters.

Performance measurement and registration

It is recommended to measure the lamp performance regularly and to choose a measuring method that is always at a similar distance and position. Don't forget to wear sufficient personal protection as recommended by the lamp manufacturer.

Keep a log of the in use hours of the measured UV irradiation level.

Bulb Life expectancy, especially those from the HID lamps, is influenced on usage.

Therefore follow these recommendations:

- *When HID-lamps are switched OFF, let them cool down sufficiently before switching ON again. **Most lamp manufacturers recommend a 5-10 minutes cool down period** (see manufacturers' manual)*
- *When the unit is in use or still warm after use, place it carefully back in the right position thereby avoiding rough handling i.e. dropping, etc. (see manufacturers' manual).*

AkzoNobel Car Refinishes Australia Pty Ltd
Address: 269 Williamstown Road, Port Melbourne, VICTORIA, 3207
Tel: +61 3 9644 1711

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Head Office

AkzoNobel Car Refinishes B.V., PO Box 3 2170 BA Sassenheim, The Netherlands. <https://sikkensvr.com/au/>

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