

Application Bulletin

AB-217

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Ultraviolet Light in Glass Applications

Lamps Used: Mineralight short wave (254nm) lamps and Chromato-Vue Cabinets

The "Purpling" of Clear Glass Bottles

Years ago bottles found on the desert turned amber or purple from the years of exposure to direct sun light. Now it can be done much faster using unfiltered short wave lamps. The lamp is usually used in a box or closet since it must be left on continually for a long period of time. Chromato-Vue Cabinets, manufactured by UVP, Inc., are ideal for this application. The cabinet protects the eyes from harmful radiation.

If the glass has the property of coloring, it will start to change color in a week under the short wave lamp. The lamp is installed above the intensity you want. It is the time element that is valuable; it takes years to turn glass exposed only to the sun's rays. With concentrated short wave radiation the glass turns purple in a matter of weeks instead of years.



Chromato-Vue Cabinet with Handheld UV Lamp