

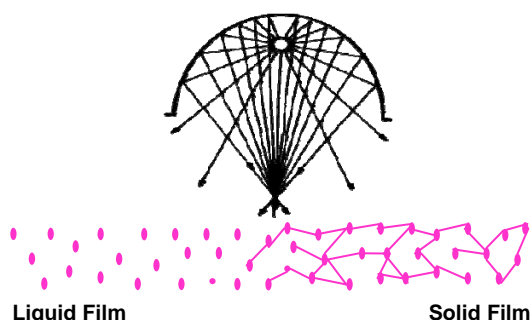


Northwest Coatings

7221 S. 10th Street • Oak Creek, WI 53154
Tel: 414.762.3330 • Fax: 414.762.9132
www.northwestcoatings.com

What is UV

The system of UV/EB curing is used on an astounding array of products and in many industrial processes. Chances are, you've already experienced the benefits of UV/EB technology more than once today.



UV/EB curing employs the use of an electron beam (EB) or ultraviolet (UV) light in which this energy is used to cure (dry) coatings, adhesives, and other materials. Coatings cured with UV are typically clear or translucent, though opaque coatings are also possible. EB curing uses an accelerated electron stream capable of penetrating and curing thicker, pigmented coatings. These energies cause the formation of radicals, molecules that bind rapidly with other molecules, resulting in extremely strong chemical bonds (cross-linking).

Materials cured by exposure to UV energy are specially formulated to polymerize in a certain way. The particular substance to be processed may vary widely depending upon its application and final use, but its basic composition revolves around base polymers, non-solvent diluents, and photoinitiators. UV/EB cured coatings are solvent and water-free, and utilize very efficient curing mechanisms with low energy requirements.

The benefits of UV curing were recognized early in its development, solving such immediate problems as space requirements and solvent pollution. With the acceptance of today's innovative UV curing technologies, recent developments have made the concept of UV curing a more practical alternative than conventional methods.

RadTech International as well as Chemical Industry can both provide more information about what UV/EB technology can do for you.

