

UVVENTION™

Custom UV/EB coatings from DSM Desotech



UV/EB Coatings: An economical and environmentally responsible solution

UV/EB coatings are cured by ultraviolet light (UV) or electron beam (EB), which are radiant energy sources. These “radcure” coatings are 100% solid, solvent-free materials that process extremely quickly and are much less toxic than traditional solvent-based systems. They create strong bonds with varied substrates resulting in exceptional durability and reliable field performance. For these reasons and more, UV/EB coatings are increasingly preferred over conventional low solid, solvent borne and waterborne coatings.

IMPROVED PRODUCTIVITY



- Since most systems are solvent-free and require less than a second of exposure, productivity gains can be tremendous as compared to conventional coating techniques.
- Products can be handled and packaged right after coating application. As a result, you may identify and resolve defects faster.
- Faster cure provides cost savings if you have less in-process inventory and shorter overall processing time.
- The use of UV/EB coatings increases up-time and productivity which should yield more profit dollars that can offset initial capital equipment costs.
- UV/EB coatings are well suited for heat sensitive substrates where thermal cure may damage the material.

ENERGY EFFICIENT



- UV/EB coatings are “eco-efficient” — and most energy savings fall straight to your bottom line.
- There is no need for high temperature ovens that require large amounts of energy to run.
- Radiation curing requires less electricity than a thermal cure system.
- No natural gas is needed.

ENVIRONMENTAL BENEFITS



- UV/EB systems provide the possibility for little to no solvent disposal or hazard. Solvent handling, reporting and disposal costs can all be minimized.
- UV/EB coatings emit little to no Volatile Organic Compounds or Hazardous Air Pollutants. They have very low systemic toxicity and a very high (or no) flash point.
- No secondary adverse impacts — no greenhouse gases, combustion contaminants, hazardous waste.
- The use of radiation cure technology is a means of pollution prevention, versus employing add-on controls to help reduce impacts.
- There are reduced fire and explosion hazards for a safer operation. In many instances, insurance costs may lessen as a result.

DSM Desotech's **UVvention™** group applies decades of **FORMULATION EXPERTISE** in UV/EB technology to develop custom coatings for companies just like yours. Contact us today to learn more.