

FACTOID: Industrial Coatings

An industrial coating is defined by its protective properties. More than just a 'pretty finish', polymer-based industrial coatings are applied for corrosion control, fire resistance and the other 'high endurance' surface properties they give to whatever surface they are employed to protect.

There are many types of industrial coatings, however the physical and chemical character, structure, and molecular behavior of polyurethane and epoxy make them among the most common polymers used in industrial coatings.

Epoxy resins offer tough corrosion protection and are typically used in primer applications to provide robust chemical resistance.

Urethanes are often top-coated over a primer, providing an extremely durable finish with exceptional weathering characteristics and strong chemical resistance.

Catalysts, cross-linkers, flame retardants, light stabilizers and other additives control and modify the reaction process of various industrial coatings and determine the performance characteristics of the cured polymer.

When properly mixed and applied, the polymerization reaction that takes place in the formulated compound develops specific physical bonding properties which could be thought of as a 'chemical weld' at the molecular level to produce a protective coating with maximum corrosion/abrasion resistance and an attractive 'high gloss' finish all at the same time.

Though long-lasting and extremely durable, polyurethane coatings are very easy to touch-up and repair. It is necessary only to clean and prep the surface and reapply any readily available industrial-quality polyurethane coating.

The pultruded components (doors, frames, louvers, etc.) manufactured by Universal Pultrusions LLC are delivered either primed for or finished with an aviation-grade polyurethane coating. This is the highest quality industrial finish available, similar to the finish used by NASA on the Space Shuttle.

This industrial coating is much stronger and vastly more durable than polyester gelcoat. Considerably more resistant to the relentless effects of UV radiation and air-borne corrosives, polyurethane finishes are not susceptible to chalking, crazing, discoloring, or leaching like gelcoat.

Additionally, polyurethane coatings maintain a high gloss finish that lasts for years. For more information, NACE International and The Society for Protective Coatings (SSPC) are professional organizations involved in the industrial coatings industry.

www.UNIPULLLC.com
100 Tillco Dr., POBox 1289, Marshall, AR 72650
870-448-4406 (voice) ~ 870-448-5120 (fax)
The Ultimate in Fiber Reinforced Polymer Door Systems

