



Abcite®

Corrosion Protection



A tough and durable new coating for outdoor furniture

Contractor

Mrs. Sherry Petril, of Millville, New Jersey

Project

For the owners of heirloom-quality, cast iron, lawn furniture it was important to find a surface coating that would ensure long-lasting protection against the ravages of time. The challenge, therefore, was to make sure to apply a reliable finish to protect the furniture against ultraviolet radiation and to make it scratch and water-resistant.

Problem

Bought in 1965, the furniture, which was standing on the terrace of a lakeside home, required lots of upkeep. Exposed alternatively to sun, adverse weather conditions and humidity, it had to be constantly repainted to remain attractive. However, the traditional finishes used to refurbish the pieces of furniture had

a serious disadvantage: the family had to be careful from one season to the next, not to end up with white chalk on their clothes after sitting on the chairs. Eventually, the Petrils would be disinclined to use the furniture, which thus became mainly ornamental.

Solution:

They finally opted for DuPont Abcite® to give the lawn furniture the required long-lasting finish. Abcite® is a very pliable coating that ensures perfect adherence to the edges and the underlying surfaces of metallic or ceramic pieces. Formulated for primerless metal adhesion, it is formed of thermoplastic powder coating resins, an alternative to traditional solvent-based coatings.

The refurbishment started with conventional metal cleaning steps. Then, the furniture was preheated to enhance powder adhesion and finally,

the white thermoplastic powder was sprayed electrostatically onto the intricate castings.

Benefits:

- Abcite® is not chemically altered or cured during processing and, therefore, does not become brittle.
- Abcite® remains a tough thermoplastic after being heat-flowed onto metal.
- Abcite® is scratch-resistant, but can be repaired by heat-flowing the part again, should the tough plastic coating be damaged.
- The high gloss finish conforms to intricate shapes, provides good coverage and gives a high-quality appearance.
- Abcite® has strong chip resistance and does not become dull or chalky.
- Abcite® is formulated to resist UV radiation, which makes it suitable for outdoor applications.

Application case history

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DuPont Powder Coatings