

Furniture Coatings - 1K Pigmented Acrylic Topcoat Formulating Challenges and Limits

The furniture business has gone global. Today coatings manufacturers sell their products worldwide whether to multinationals or to local producers. In the past wood was the main substrate for furniture but now engineered woods are used in almost all markets. The end use application drives the performance requirements & in addition the substrate throws up a range of different new problems. 1K self-crosslinking water-based acrylics are easy to use and formulate. They are common binders for clear transparent coatings but it is difficult to formulate 1K pigmented topcoats with high chemical resistance. The EPS technical center in The Netherlands has conducted extensive research to identify the interactions that drive chemical resistances in 1K acrylics white pigmented topcoats, the limits of this technology and to understand the influence of substrates and coating cycles on final performance.

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