UV coating systems with renewable raw materials

The development department of the coating and stain specialist Hesse from Hamm has succeeded in formulating UV coating systems with a remarkably high proportion of renewable raw materials. At the same time, the user does not have to make any compromises in terms of chemical and mechanical resistance with these environmentally conscious developments.

The series was developed for the furniture industry, and especially for furniture and doors. The aim of the development was, in addition to the sustainable formulation, to achieve at least a comparable durability as with conventional UV coating systems. After extensive tests, a 100% roller UV system consisting of colourless and coloured UV varnishes has been created, with which ambitious sustainability goals – such as at IKEA – can be achieved. See Hesse's article series, 'Better carbon'.

The shares of renewable raw materials, also called Bio Renewable Carbon (BRC), refer to the total amount of carbon contained in the product. This calculation is made, for example, by IKEA, which has set itself the goal of replacing 30% of fossil carbon with renewable shares by 2025.

Unlike other representations, the share of natural resources such as water or near-natural fillers and the like is not taken into account in this calculation, only the replacement of fossil carbon.

Positive feedback from the furniture industry, which described the workability as "very good", encouraged Hesse to submit the solution to the Paint + Varnish Award 2020. The jury rewarded this innovation with first place in the 'Best Sustainability Approach' category. The concept, which won an award last year, could be practically implemented in the furniture and door industry this year.

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