

Flowers for an aluminum frame



Aluminum windows are trending. Considered modern and elegant, they are robust, long-lasting, and easy to maintain. This metal version of the window frame also offers an important safety advantage: the material does not burn. Plus, an innovative printing process now makes it possible to change the color of aluminum, eliminating any limits on window frame design. Whether you're after a flashy look, a floral pattern, or a deceptively realistic wood grain—the sky is the limit. The word “colorful” also applies to aluminum doors, aluminum cabinets, aluminum exterior elements, and much more.

Underlying these visually appealing decorative options lies what is known as thermal sublimation printing, a relatively new method in the coatings-processing industry. The process involves printing specialized inks on release paper and then transferring these to the printed surface at high temperatures and pressures. What makes the method so special is that the printing ink does not remain on the printed surface—it instead migrates into the surface so that it cannot come off.

At the heart of this modern form of surface treatment are powder coatings that utilize highly efficient crosslinkers made by Evonik Resource Efficiency. Combining these coatings with a crosslinker like VESTAGON® allows them to perform to their fullest. And that's not all: these powder coating systems

are becoming increasingly important in terms of environmental protection and sustainability as well. This is because they contain no solvents and generate neither wastewater nor paint sludge that needs to be disposed of by a professional. Paint recovery (over 95%) is technically feasible as well. This makes powder coatings among the most environmentally friendly coating products available, as the German Environment Agency has confirmed.

The name says it all: Resource Efficiency GmbH is where Evonik bundles its global specialty chemicals business, supplying customers in a variety of industries with environmentally friendly system solutions that make efficient use of energy and raw materials. The segment's motto? **More value. Less resource.**

More value. Less resource. A response to two megatrends – sustainability and resource conservation – this mission is about protecting the planet and securing the well-being of future generations.

VESTAGON® is part of the Resource Efficiency product portfolio. VESTAGON® delivers sustainability and environmental protection. **And so does Resource Efficiency.**

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