

## Evonik: Unlimited play of colors and effects with glass

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- Decorative glass coatings add color and allow surface effects

Perfume bottles, vases, and glass costume jewelry exist in an enormous variety of colors. When produced by classical methods, colored glass is restricted to just a few glossy colors. However, the trend is now toward matt colors and a soft, velvety feel. Well-suited to producing both of these is decorative glass coating based on VESTANAT® EP-DS 1205 E.

The traditional method of coloring glass is a thing of the past—today alternatives exist. For example, the coating of the glass material. This allows many more colors to come into play, and also offers the possibility of interesting surface effects. This is because VESTANAT® systems allow the formulation of almost any required feel, soft or hard. In furniture production as well, many glass panels are now coated.

VESTANAT® EP-DS 1205 E also enables coating producers to formulate these coatings with very low VOC (volatile organic compound) content, and thus to comply with legally specified emission limits. “Until now, toxic heavy metal salts were needed for coloring glass. VESTANAT® means that in future a host of different colors can be produced, even in small production quantities”, says André Raukamp, Technical Service Specialist at Evonik.

“Following further development work, Evonik now also offers a tin-free variant under the name VESTANAT® EP-DS 1205 TF. This is a reaction to the trend of avoiding the use of tin-containing

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compounds in glass coatings”, emphasizes Thorsten Marin, Marketing Manager in the Crosslinkers Business Line.

The development of high-performance isophorone-based crosslinking technologies is a core competency of the Crosslinkers Business Line in the Coatings & Additives Business Unit at Evonik. Crosslinkers ensure color fastness and weather resistance in coatings. Their scope of applications range from the solvent-free coating of industrial flooring, through light- and weather-resistant automotive coatings, to the crosslinking of powder coatings for decorative corrosion protection.

#### **Company information**

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik’s corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms.

Evonik is active in over 100 countries around the world. In fiscal 2012 more than 33,000 employees generated sales of around €13.6 billion and an operating profit (adjusted EBITDA) of about €2.6 billion.

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