

TEGO® VariPlus LK lowers VOC content in pigment concentrates and coatings formulations

- Evonik helps to reduce emissions
- More formulation freedom for customers

Emission limits for volatile organic compounds (VOC) are being lowered worldwide. Consequently, coatings formulators are increasingly limited in their choice of raw materials and hence their formulations. TEGO® VariPlus LK, the new grinding resin from Evonik Resource Efficiency, drastically lowers the VOC content in pigment concentrates for solventborne coatings and therefore in the total formulation. For the formulator, this means more formulation freedom, increased flexibility in the choice of raw materials, and greater color diversity. Because the grinding resin is liquid, dissolving is unnecessary thus eliminating a production step.

Until now, pigment concentrates have generally had a high VOC content, which largely determines the final VOC content of colored coatings. To reduce this high VOC content, Evonik has developed TEGO® VariPlus LK grinding resin. The new resin reduces the viscosity of the concentrate thus permitting optimized pigment loading. Used in combination with TEGO® Dispers 676 dispersing additive, the VOC content in the concentrate can be lowered by up to 75%. For the overall formulation this means a VOC reduction of up to 100g/l when adding 20% concentrate.

“VariPlus LK is one of the first liquid grinding resins on the market”, emphasizes Daniel Brünink, Director Global Marketing Decorative Coatings. “Up to now grinding resins have been supplied as granules which have to be dissolved in a solvent. With VariPlus LK, formulators will be able to cut out this step.”

The new grinding resin is compatible with all common binders. Coatings properties are scarcely affected by pigment concentrates based on VariPlus LK.

Guide formulations for pastes can be found at www.tego.us

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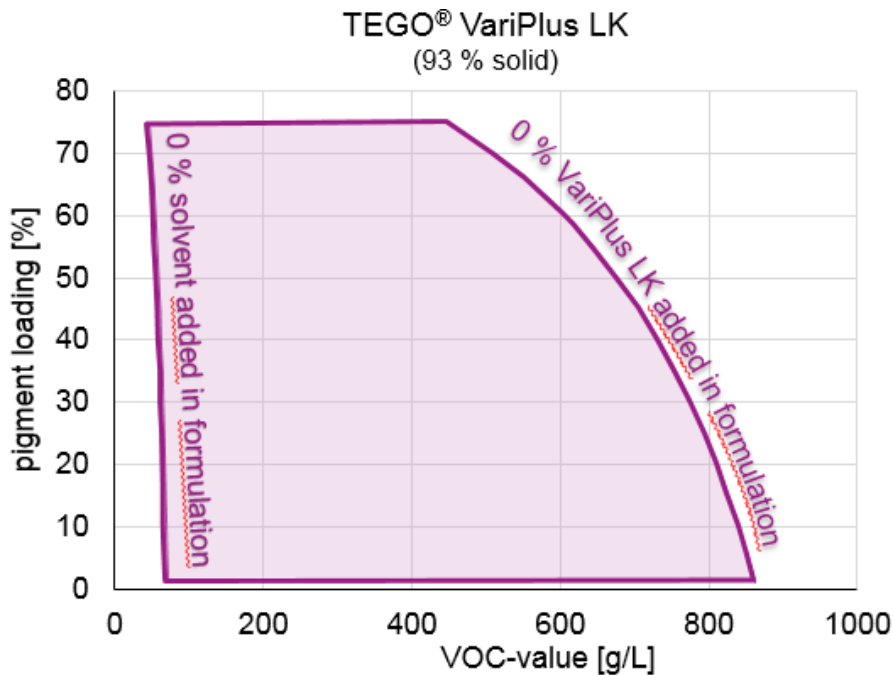
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Company information

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 2014 more than 33,000 employees generated sales of around €12.9 billion and an operating profit (adjusted EBITDA) of about €1.9 billion.

Evonik Industries has been producing specialty chemical products in the Greater China region (Mainland China, Hong Kong and Taiwan) since the late 1970’s; with wide-ranging trading relations already in place prior to this in the region. Evonik regards Greater China as one of the driving forces of the global economy and we consequently endeavour to grow our business in the region. The company now has around 3,000 employees in the Greater China region, the regional sales reached over €1.1 billion in 2014.

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