

Evonik: Resource efficiency through bio-based binder systems

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- By developing DYNAPOL® *Terra*, Evonik has created a bio-based binder system for organic coil coatings
- The new DYNAPOL® product range combines user friendliness with environmental compatibility

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Evonik Industries has developed a new product range of polyester resins for coil coating primers and topcoats to market maturity under the established DYNAPOL® brand. DYNAPOL® *Terra* is based on renewable raw materials, which sets it apart from other binders used for this type of coating. Most other binder systems are based on saturated, hydroxyl functional polyester polyols that are produced mainly from petroleum-based raw materials. The colorants and coatings industry has been looking for suitable alternatives for these petrochemical building blocks for many years, since resource efficiency is an important growth generator. DYNAPOL® *Terra* shows just how seriously Evonik pursues this topic in the interests of its customers.

With this new range of products, Evonik has overcome two challenges at once. On the one hand, the coating experts identified suitable bio-based polyester resin building blocks, and on the other, they ensured general applicability, fast implementation, and availability on an industrial scale. The first DYNAPOL® *Terra* polyester resins have already been successfully introduced to customers: "Paints based on DYNAPOL® *Terra* exhibit excellent cross-linking properties and offer a balanced ratio of hardness and flexibility," says Thomas Mohr, Technical Manager for Coil Coating in Evonik's Coating & Adhesive Resins Business Line. "The technical product properties are on a par with conventional binder systems."

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In the coil coating process, pre-coated steel and aluminum substrates are used on a large scale for roof and wall cladding, ceiling panels, household appliances and air-conditioning units, and for many other applications.

The Coatings & Additives Business Unit of Evonik Industries supplies the paint, coatings, adhesives, and sealant industries with high-quality functional polymers and monomer specialties. It also produces high-performance oil additives and hydraulic fluids.

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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