

## Shining process with Continuous Direct Polymerisation (CDP™)

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The continuous production process for methacrylate-based binders, CDP™, has opened the door to products which improves the properties of coating formulations.

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Coatings based on resins from the process, CDP™, improve pigment wetting and stabilization, and the gloss and adhesion of coatings. One very important field of application for methacrylate polymers is their use as binders in coatings and paints. Not only do the methacrylate polymers excel because of their good weathering resistance, colour fastness, and brilliance, they also have very good pigment ability. Because of these positive properties, methacrylate-based binders are used especially in industrial metal coatings, particularly in those covering surfaces strongly exposed to the weather, such as container and marine paints.

Other applications in which methacrylate binders have proven their value are coating systems for plastics, architectural coatings, road marking paints, and printing inks.

The CDP™ process has now made it possible to combine the excellent properties sought in a bulk polymer with the efficiency of a suspension polymer.

Please visit our website [www.smart-formulating.com](http://www.smart-formulating.com) as well.  
Please feel free to download press releases and photos.

### Resins

Binders are the single most important components in a coating system. Evonik Industries offers a comprehensive range of resins and complete binder systems, making it the solution provider of choice for the coatings industry.

**DEGALAN®** thermoplastic methacrylate resins are distinguished by high weathering resistance and a wide spectrum of application possibilities. They are also light fast and alkali resistant, a property that is particularly important in the coating of concrete. They are used in coatings for ships, plastics, and facades.

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In the **DYNAPOL® / VESTICOAT® UB** brands, Evonik offers polyester resins that have proven to be outstanding in hard or flexible weather-resistant coil coatings. They are also suitable for interior and exterior can coatings complying with food safety laws, and for flexible packaging applications.

The **TEGO® AddBond** and **TEGO® VariPlus** cobinders improve many properties of coatings and printing inks, such as adhesion to critical substrates. The **SILIKOPHEN®**, **SILIKOFTAL®**, **SILIKOPUR®**, and **SILIKOPON®** silicone-based and silicone-hybrid binders are ideally suited for applications where protection is required from heat, weathering, corrosion, chemicals, and UV light.

### **About Evonik**

Evonik is the creative industrial group from Germany. In our core business of specialty chemicals, we are a global leader. In addition, it has energy and residential real estate operations. Our performance is shaped by creativity, specialization, reliability and continuous self-renewal.

Evonik is active in over 100 countries around the world. In fiscal 2010 more than 34,000 employees generated sales of around €13.3 billion and an operating profit (EBITDA) of about €2.4 billion.

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