

Evonik at ChinaCoat 2009, Display Innovations of Smart Formulation

With the theme of “Smart formulating. Together!” Evonik will be demonstrating its latest innovations achievements in coating area at the 2009 ChinaCoat in Shanghai from November 18th to 20th.

Evonik is at home in the world of coatings and printing inks industries. We provide functional polymers and high-quality monomer specialties for the paints and coatings, emulsion paints and color mixing systems, coatings additives, water-repellent agents and heat-resistant silicone binders for further processing in the coatings and colorants industries as well as functional silanes used as adhesives for in coatings and colorants.

In recent years, China has grown up as the second largest production and consumption center of coating products in the world. Meanwhile, people are more and more concerned about health, while pursue unique decoration style, which brings up a new standard towards coating products in terms of its environmental and special features. Coming up with the conception of “Smart formulation”, Evonik is supporting our customers for a new level of business success with our innovative products.

Welcome to visit Evonik’s booth for more information about our products at Hall E2, E06-10 of Shanghai New International Expo Center.

New members of the Top Brand TEGO®

– TEGO® Foamex K 8, the Up-to-date Alternative to Mineral Oil Defoamers

TEGO® Foamex K 8 is the new powerful defoamer for architectural coatings from Evonik – the up-to-date alternative to mineral oil defoamers. The vegetable oil-based defoamer shows superior defoaming not only in interior and exterior low-VOC coatings, but in nearly all waterborne architectural formulations. The defoamer combines high efficiency with excellent compatibility, both in low PVC facade paints based on pure acrylics and highly filled interior wall paints based on styrene acrylics. Moreover the mineral oil-free TEGO® Foamex K 8 offers an outstanding long-term effectiveness during storage of the paint.

– TEGO® Dispers 670, Wetting and Dispersing at its Highest Level

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TEGO® Dispers 670 is a high performance wetting and dispersing additive for solventborne applications. It allows the formulation of organic, inorganic or carbon black pigment dispersions for high end applications such as automotive coatings, industrial 2-pack PU systems or enamels as well as jet inks requiring superior transparency in combination with high gloss. Effective reduction of mill-base viscosities and therefore high pigment loadings with excellent pigment stabilization are achieved as well. Extremely low yield points have been measured with pigment dispersions based on TEGO® Dispers 670 in combination with superior color strength development. Productivity can be optimized due to outstanding pigment wetting and thus shortened grinding times.

– SILIKOPUR® 8080 for Perfect Surface Finishing

Evonik Industries has added yet another innovative binder system, SILIKOPUR® 8080, to its tried-and-proven Tego product portfolio. It is ideal for protecting surfaces against environmental influences, maintaining their appearance and feel for a long time, imparts extra shine and functionality to surfaces of plastics, textiles, and leather. The novel, single-component silicon-modified polyurethane dispersion is easily diluted with water, stands out for its high flexibility and elasticity in hot and cold conditions. Once applied, the product can withstand temperature swings from –30 °C to 50 °C, without forming cracks in the coating. At the same time, it's versatile and easy to apply.

– TEGO® Glide 485 – Strong Slip Now for Printing Inks That May Come into Contact with Food

Silicone-based slip and anti-blocking additives are the first choice when it comes to a high slip and anti-blocking effect in waterborne printing inks and coatings. Thanks to TEGO® Glide 485, these additives can now also be used in formulations where direct food contact is possible.

This slip additive is an emulsion and therefore easy to incorporate, odorless, highly effective, and complies with the strict FDA Regulation 21 CFR 175.300 and BfR(German Federal Institute for Risk Assessment) Recommendation XIV. Even at low doses, the slip resistance and blocking effect are considerably decreased while TEGO® Glide 485 significantly increases the scratch resistance. The gloss level is retained and the

formulations foam less. The combination of TEGO® Glide 485 with waxes generates further synergies.

– **Extended Food Contact Status for TEGO® AddBond Products**

The TEGO® AddBond products are adhesion-enhancing components for solventborne, waterborne or energy curable coatings, printing inks and adhesives. The products improve adhesion to a high number of substrates, including critical substrates like metals, minerals, and various types of plastics, and are therefore often used in under coats or single layer coatings. The products also improve intercoat adhesion, so that they are highly recommended even in multicoat formulations. The adhesive power of the TEGO® AddBond products, combined with their excellent resistance to hydrolysis significantly improve corrosion protection in the coatings. Recently there are another four products of Tego® Addbond are allowed to use the FCN(Food Contact Notification), they are: TEGO® AddBond LTW, TEGO® AddBond LTW-B, TEGO® AddBond LTH and TEGO® AddBond DS 1300.

Further information is available at <http://www.tego.info/cn/>.

Enhanced and extended MMA product line

– **The largest MMA Integrated Production Site in Asia on stream**

Evonik Industries has started the production of thermoplastic methacrylate resins and methyl methacrylate (MMA) in Shanghai. The capacity of the MATCH plant is approximately 100,000 metric tons of MMA per year. The main products are methyl methacrylate (MMA), methacrylic acid, butyl methacrylate, hydroxy esters, special esters, polymethyl methacrylate (PMMA). MATCH (“Methacrylates To China”) stands for a new integrated production concept for Methacrylates and PMMA specialties.

The new MMA plant in Shanghai is one of Evonik Industries’ largest investment projects worldwide, amounting to €250 million. Evonik regards Asia-Pacific as an important region, and wishes to establish regional production capacity for its wide portfolio of Methacrylates. With MATCH, Evonik is so well positioned now that it can serve the growing needs of the coatings industry virtually right at its customers' doorsteps.

- DEGALAN® , innovative coating resin made by unique CDP™ technology

As a part of the MATCH project, the production plant for thermoplastic methacrylic resins, DEGALAN® in Shanghai is now completed as well. It's worth mentioning that the plant is placing its stakes on the new Continuous Direct Polymerization (CDP™) process for making products used primarily as binders in the coating industry. The CDP™ process combines the advantages of a continuous process with those of bulk polymerization, yielding products that are cost-effective and of a higher quality than those currently available on the market. These DEGALAN® products perform impressively in all areas of application that call for a superior level of weather resistance, colourfastness, and high brilliance.

- VISIOMER® , Room-Temperature Crosslinking Systems

Methacrylate systems that enable crosslinking of aqueous binder systems at room temperature allow the user to adjust the final properties of the coating after application by post-crosslinking. At the same time, the user can exploit the advantages of a non-crosslinked, readily film-forming emulsion system for the application. Crosslinking is initiated by light, oxidation or reaction with a condensation partner, depending on the chosen monomer. The light-reactive methacrylate VISIOMER® BPMA based on a benzophenone methacrylate is crosslinked by means of a small dose of UV radiation, i.e. the UV proportion of daylight is sufficient to enable crosslinking. Acrylic resins manufactured with oxidatively crosslinking VISIOMER® MUMA monomers show comparable film properties and offer the added benefit of good compatibility with alkyd resins, i.e. a combination of acrylic and alkyd resins unites the advantages of both systems. VISIOMER® ALMA, a methacrylate system that crosslinks by condensation, makes it possible to obtain durable, high-gloss coatings even when incorporated in small quantities.

The advantage of polymers containing the described reactive methacrylates is therefore the ability to adjust a low minimum film-forming temperature while still obtaining very hard films with good mechanical properties and excellent resistance to commonly used chemicals. Besides, the new aqueous crosslinking systems can make a significant contribution to complying with the increasingly stringent VOC directives.

Well-recognized long-standing brand

- Thirty Years of Reliable Bonding—Thanks to VESTOPLAST®

VESTOPLAST® is celebrating its birthday. For 30 years now, this product family from Evonik's Coatings & Additives Business Unit has been lending hot-melt adhesives their reliable bonding strength. VESTOPLAST® has a wide range of application—as an adhesive in diapers and an additive in road marking materials, and for use under carpeting or in furniture construction, to name only a few. What's more, VESTOPLAST® is environmental compatible and 100 percent recycled.

About Evonik

Evonik Industries is the creative industrial group from Germany which operates in three business areas: Chemicals, Energy and Real Estate. Evonik is a global leader in specialty chemicals, an expert in power generation from hard coal and renewable energies, and one of the largest private residential real estate companies in Germany. Our strengths are creativity, specialization, continuous self-renewal, and reliability. Evonik is active in over 100 countries around the world. In its fiscal year 2008 about 41,000 employees generated sales of about €15.9 billion and an operating profit (EBITDA) of about €2.2 billion.

Evonik Industries has been producing specialty chemical products in China since the early 1990's, with wide-ranging trading relations already in place prior to this. The Group now has a total of 20 companies and 16 production sites in the region. In fiscal year 2008, 4,000 employees generated sales of over €820 million. Evonik regards China as one of the driving forces of the global economy, and we consequently intend to increase our business in Greater China to around €2 billion in the medium term.

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