

Colombes, le 16 avril 2015

European Coatings Show, Nuremberg
Du 21 au 23 avril 2015

Arkema, un portfolio de solutions pour les industriels du revêtement, parmi les plus larges du marché

Arkema, un leader mondial des matériaux pour revêtements et peinture dispose d'une offre, multi-technologies et multi-produits, unique sur le marché à destination des industriels des peintures et revêtements. Le Groupe présentera son offre complète à l'European Coatings Show de Nuremberg du 21 au 23 avril 2015 (Hall 4A - stand 328).

Grâce à son large portfolio de matériaux et technologies, Arkema couvre la majorité des applications du revêtement : peintures architecturales et décoratives, revêtements pour le bois, le plastique ou le métal et les encres. Le Groupe dispose d'un spectre de résines et additifs avec des chimies et des technologies très variées. Cette particularité lui permet de s'adapter aux demandes spécifiques des clients selon leurs géographies et de couvrir tous les marchés du revêtement :

- bâtiment,
- transport,
- maritime,
- électronique,
- encres pour les arts graphiques et emballages,
- textiles, non tissés et cuirs.



L'activité revêtements d'Arkema place le Groupe en 3^e position mondiale des fournisseurs de matériaux et technologies pour les formulateurs de peintures et revêtements.

Son portefeuille de résines, solvants et additifs fait partie des plus complets du marché, il englobe:

- Les émulsions acryliques pour peintures aqueuses (marques ENCOR®, Neocar®, Synaqua®, SNAP®).
- Les résines polyesters et alkydes pour peintures solvantées (marques Chempol®, Crayamid®, Synocure®, Synolac®, Realkyd®, ...).
- Les polymères fluorés PVDF pour des revêtements extérieurs de longue durabilité (Kynar 500®).
- Les additifs rhéologiques (dispersants, épaississants) de Coatex pour les revêtements phase aqueuse (marques Ecodis™, Coadis™, Coapur™, Rheotech™, Viscotex™, ...).
- Les additifs poudres fines polyamides pour améliorer les textures et la résistance de surface (marques Orgasol®, Rilsan® Poudres Fines).
- Les résines de spécialités acrylates et méthacrylates pour l'*UV curing* de Sartomer.

- Les solvants oxygénés (solvants de synthèse, agents de couplage et agents de coalescence).
- Et enfin, les tensioactifs, polyols, et tamis moléculaires (Dianol®, Adiansol®, Ensoline®, Surfaline®) et les agents mouillants et dispersants (Ensoline® et Surfaline®) de CECA permettant une meilleure durabilité des peintures industrielles.

Le salon ECS est l'occasion pour Arkema de dévoiler plusieurs innovations et de revenir sur des actualités récentes.

Sommaire

- **L'Orgasol® 1002 ES5 NAT1, la seule poudre polyamide 6 conçue pour le *coil coating* alliant performance et compétitivité.**
- **Arkema démarre un nouveau réacteur de résines au Brésil.**
- **Sartomer présente ses derniers développements pour optimiser la performance des solutions réticulables UV-LED.**
- **Arkema célèbre les 50 ans de sa résine PVDF Kynar 500®.**
- **CECA présente ses polyols tensio-actifs de spécialités à base d'alcoxyllats et ses amines grasses pour améliorer la durabilité des revêtements.**

Acteur majeur de la chimie de spécialités et premier chimiste français, Arkema développe des matériaux et des technologies innovantes et apporte à ses clients partout dans le monde des solutions crédibles et concrètes aux enjeux majeurs liés au changement climatique, à la préservation des ressources, à l'efficacité énergétique, à l'accès à l'eau potable, et l'allègement des matériaux. Présent dans près de 50 pays, avec un effectif d'environ 19 000 personnes, des centres de recherche en Amérique du Nord, en France et en Asie, Arkema réalise un chiffre d'affaires pro forma de 7,5 milliards d'euros et occupe des positions de leader mondial sur l'ensemble de ses marchés avec des marques internationalement reconnues.

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Innovation

**Orgasol® 1002 ES5 NAT1, the only
polyamide 6 powder designed for coil coating
combining performance and competitiveness**

Arkema launches its latest innovation, Orgasol® 1002 ES5 NAT1, a spheroidal polyamide powder with a melting point in excess of 210 °C, combining a 50 µm average diameter with a narrow particle size distribution.

These unique properties help achieve a regular and uniform coating, even when the particles are subject to very high temperatures.

Orgasol® 1002 ES5 NAT1, designed for use as a texturing agent for polyester and polyurethane coatings, also enhances abrasion and scratch resistance.

The new Orgasol® 1002 ES5 NAT1 grade, while maintaining high quality standards, represents an innovative and cost-effective solution for players of the coil coating sector.

Arkema offers Orgasol®, high-performance polyamide powders for use as surface additives in industrial coatings. Orgasol® ultra-fine polyamide powders are polymers and copolymers of lauryl lactame and/or caprolactame obtained by direct polymerization. Due to this unique process, Orgasol® powders are available as micro-porous spherical beads with a very narrow particle size distribution. In the graphic art and coating industries, Orgasol® ultra-fine polyamide powders offer unique properties such as abrasion and scratch resistances, surface texturing effect, gloss control and anti-blocking. Accordingly, Orgasol® powders help achieve the required performances in a wide range of coating types (solvent-based, water-based, UV/EB and powder) and coating processes (roller or spray). Coil coating, can coating, industrial coating (metal, wood, plastics, rubber, glass...), paper coating, ink and over-print varnish are typical applications.

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**European Coatings Show, Nuremberg
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Cary, NC, USA and Sao Paulo, Brazil, April 13, 2015

Arkema brings new resins reactor online in Brazil

The Coating Resins business of Arkema has expanded acrylic resin manufacturing capacity in Araçariquama, Brazil by 60 percent. The new reactor will enable manufacturing of Arkema's product chemistries previously unavailable in the region.

With the start-up of the new reactor, Arkema has improved virtually every aspect of the company's latex production in Brazil, including manufacturing, logistics and shipping, storage, filtration and the capabilities of the reactor itself.

"These improvements will enable us to begin migrating production capabilities and product lines currently available in other parts of the world to the facility in Brazil," Eric Schmitt, President, Arkema Quimica Ltda. Brazil, explained. "We can now provide customers local manufacturing of innovative, market-leading products, produced in a modern, automated facility with a focus on consistent, repeatable quality, and environmental responsibility."

Products manufactured at the plant will now include a much wider range of chemistries, including 100% acrylic, styrene acrylic, vinyl acrylic, vinyl VeoVa™ and polyvinyl acetate (PVA). These products are used across many traditional and emerging applications in industries such as architectural coatings, industrial coatings, pressure sensitive adhesives and construction adhesives, textiles, sealants and waterproofing membranes.

As production ramps up, Arkema will begin to introduce new products based on demand and market potential. The first products added to the production capabilities of the new facility include:

- **ENCOR® 265 BR**, a high scrubbing styrene acrylic resin for use in architectural coatings.
- **ENCOR® DT 211 BR**, a 100% acrylic ideally suited for fast-dry traffic paints.
- **ENCOR® 161 BR** styrene acrylic latex for use in mortars and grouts, tile adhesives and waterproofing membranes, as well as cement-based skim coats, gap fillers, and in decorative concrete applications.
- **ENCOR® 413 BR**, an acrylic emulsion polymer specifically developed for use in the polymer modification of Portland cement and other hydraulic cement compositions.
- **ENCOR® 9801 BR** acrylic pressure sensitive adhesive for packaging tape applications.
- **ENCOR® 9466 BR**, a high solids acrylic pressure sensitive adhesive for label applications.

"Arkema has been investing consistently to expand our global presence in resins," said Carlos Lion, Market Manager for Arkema Coating Resins in South America. "Local production in Brazil will allow

us to better serve our current customers while, at the same time, offering formulators in various market areas, such as coatings, construction and adhesives, more competitive access to the raw materials they need."

The start-up of this new capacity underscores Arkema's commitment to growing its franchise in the global coatings industry, as well as in local markets served.

For more information about Arkema Coating Resins, visit www.arkemacoatingresins.com.

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ENCOR® is a registered trademark of Arkema Inc.

Veova™ is a trademark of Hexion Inc.

European Coatings Show, Nuremberg
April 21 to 23, 2015

Colombes, March 19, 2015

Sartomer showcases its most recent developments to enhance the performance of UV-LED curable systems

Sartomer, a subsidiary of the Arkema Group, is the premier global supplier of acrylate and methacrylate monomers, oligomers and unique specialty chemicals designed for high performance UV (ultra violet) and EB (electron beam) curable systems. The company innovates with new high functional resins that help maximize the performance of UV-LED cured inks and coatings in terms of speed and quality of curing.

For several decades, UV curing systems have typically used at least one medium pressure mercury bulb giving broad spectral emissions. These systems were generally designed to obtain the fastest cure speed possible, with productivity gains as the ultimate goal. Today, UV curing is a major industrial technology, offering powerful solutions for printing inks and coatings.

As this technology progresses, curing systems based on LEDs are becoming increasingly interesting for end-users. They can offer several cost benefits over traditional UV mercury lamps. As a consequence, LED curing builds on the groundwork established by the conventional UV curing systems, and opens new possibilities for high performance radiation curing applications.

Any new technology will always entail new technical requirements to maximize performance. A particular interest with LEDs is improvement in surface cure speed. Once again, Sartomer has lived up to this challenge by developing a new generation of high functional resins to boost reactivity, reduce oxygen inhibition on surface, maximize acrylate conversion, and enhance the performance of UV-LED cured inks and coatings. Sartomer will unveil these innovative resins at the upcoming European Coatings Show, April 21 to 23 2015 in Nuremberg, Germany (ARKEMA booth 328, Hall 4A).

Sartomer is the premier global supplier of specialty chemicals for ultraviolet and electron beam (UV/EB) peroxide and two-part epoxy/amine systems. For more than 55 years, Sartomer has been working with formulators to pioneer the development of advanced technologies, introducing hundreds of products that deliver the innovations they need to enhance performance in coatings, graphic arts, adhesives, advanced materials, construction and other demanding applications. With global headquarters in Exton, Pa., Sartomer is a business unit within Arkema Group (annual revenue of €7.6 billion). For more information, visit www.sartomer.com.

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**European Coatings Show, Nuremberg
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Colombes, February 5, 2015

Arkema celebrates 50 years of Kynar 500® PVDF resin

Kynar 500® PVDF resin, a pioneering fluoropolymer chemistry that provides coatings with remarkable durability, weather resistance and color retention properties, marks its 50th anniversary as demand continues to be strong in architectural applications, where exceptional performance is required.

Available exclusively from Arkema through a strict licensing program, Kynar 500® PVDF resin is used in long-life coatings that protect some of the most iconic buildings around the world—including The Pyramid of Louvre in Paris, Wimbledon Court Number 1 in London, the Oriental Pearl Tower in Shanghai, and the Renaissance Center in Detroit.

"Thanks to the support of our licensee partners, such as PPG Industries, Kynar 500® PVDF resin-based coatings will keep these beautiful architectural treasures vibrant and appealing for a long time," said Erwoan Pezron, global managing director of Arkema's fluoropolymers business unit.



Kynar 500® PVDF resin-based coatings were the original high-performance durable finishes for protecting aluminum, galvanized steel, and aluminized steel building components against blistering heat, humidity, pollution, acid rain, corrosive salt, and abrasion for decades of useful life. Introduced in 1965, the Kynar 500® PVDF resin breakthrough technology is known within the architectural community as one of the world's most weatherable resins for creating a coating system with an extraordinary capability to retain color and gloss. Today, Kynar 500® PVDF resin-based coatings provide billions of square feet of protection against weathering, aging and pollution on commercial, industrial, institutional and residential buildings around the globe.

Arkema R&D has a strong tradition of developing next-generation coating solutions based on Kynar 500® PVDF resin technology. Recent product introductions include Kynar 500® FSF® fluorosurfactant-free resin developed to eliminate perfluorinated surfactants such as perfluorooctanoic acid (PFOA) from the manufacturing process, and Kynar Aquatec® latex for producing water-based coatings that meet the most stringent volatile organic compound requirements. As the industry's leading fluoropolymer supplier, we are celebrating this legacy of leadership and renewing our commitment to providing customers with innovative Kynar 500® PVDF resin-based coatings solutions for the next 50 years.

Help us celebrate 50 years, all year long. Visit Kynar500.com, follow the hashtag **#kynar500**, and find us on social media to get the latest news and to join the conversation.

Since first introduced in 1965 for architectural metal coatings requiring exceptional durability, many new grades of Kynar® resins have been developed for a variety of markets and applications. With their outstanding resistance to chemicals, UV radiation, and high temperatures, Kynar® fluoropolymer products are widely used in the chemical processing industry, offshore oil and gas production, water treatment and in newer applications, such as Li-ion batteries and photovoltaic solar panels. Learn more about the comprehensive range of Kynar® grades and their many applications on www.kynar.com. Kynar 500® FSF®, Kynar Aquatec® and Kynar® are registered trademarks of Arkema Inc.

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CECA presents its specialty surfactants polyols based on alkoxylates and fatty amines to improve durability of coatings

On the occasion of ECS 2015, CECA will be presenting its complete range of surfactants and polyols sold under the brand names Dianol®, Adiansol®, Ensoline® and Surfaline®. The Dianol® and Adiansol® products are used to improve the adhesion properties and hydrolysis resistance of industrial coatings and automotive resins. The Ensoline® and Surfaline® products are wetting and dispersing agents for better stabilization of paints. CECA brings a high level of services to its customers and develops innovative solutions to meet the new regulatory coating requirements.

The leading European producer of diatomaceous earth and perlite filter aid, CECA supplies its minerals under the brand names Clarcel® and Randafil™ in a range of functional additives for paints as well as decorative and industrial coatings. The physical structure and morphology of diatoms and perlite bring a matting effect and give the film roughness, enabling better inter-layer adhesion. Through their hardness and chemical inertness, these minerals also increase the functional abrasion resistance of coatings, thus extending their lifetime. Furthermore, the porosity of diatomite enables the control of vapour permeability while providing weathertight qualities.

With 40 years of experience in molecular sieves, CECA also offers a wide range of adsorbents to address various problems related to the presence of water in mono and bi-component polyurethane systems. Sold under the brand name Siliporite®, these molecular sieves are excellent desiccants and humidity traps, used to prevent surface defects and extend the pot life of polyurethane systems.

More information on:
cecachemicals.com

Ceca

Ceca, a subsidiary of the Arkema Group, is a world player in Specialty Chemicals. Ceca constantly strives to improve its customers' performance by creating and developing adsorbents, chemical intermediates, and additives. Ceca operates an extensive network of industrial facilities, together with two research centres (GRL and CRRA) dedicated to customer innovation.

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