

Press Release

Waalwijk (NL), 2 December 2020

DSM launches new Decovery® sustainable resin to help packaging market lower its carbon footprint.

DSM, a global science-based company active in health, nutrition and materials, is launching sustainable, plant-based Decovery® resins for the packaging industry. Starting with the Decovery® SP-6400XP, with others to follow, this announcement paves the way for packaging producers to reduce their carbon footprint.

The print and packaging industry is constantly seeking materials which offer a lower level of VOCs and carbon emissions as these will help brand owners to fulfil their sustainability pledges. In recent years, DSM has realized that its Decovery® plant-based technologies could offer much-needed improvements to sustainability to the packaging market.

With the launch of the SP-6400XP – part of DSM’s Decovery® range of resins for the creation of adhesives, primers, inks and topcoats – DSM is helping brand owners to take a significant step towards meeting their environmental and sustainability pledges while also moving towards fully bio-based solutions.

“With our Decovery® resins we have enabled the transition to plant-based materials in the decorative, flooring, joinery and furniture markets,” explains Tim Gratzke, Marketing Manager Decovery® at DSM Resins & Functional Materials. “This was only the beginning, the natural next step was leveraging our capabilities and experience to build sustainable solutions for packaging applications.”

New Decovery® SP-6400XP is a low NaOH alkali-soluble acrylic copolymer dispersion with high clarity and flexibility. It is particularly suited to adhesive application, such as removeable paper labels for bottles and domestic adhesives.

It has a significantly lower carbon footprint than conventional, oil-based alternatives, while also being highly flexible, meaning it can be deployed to adhere to a wide range of substrates. It is clear to view, non-tacky to touch and will adhere to a variety of substrates including glass and PET. At the end of its use, low temperature wash-off properties make SP-6400XP less energy-consuming in the recycling process.

Jacqueline Revet, Global Marketing Manager of DSM Resins & Functional Materials commented: “People tend to appreciate the carbon-saving benefits of switching to, say, plant-based paints. But a lot of people are not aware of the difference that plant-based adhesives can make. When we reach the day when all adhesives are plant-based, we’ll save the planet 15 kilotons of carbon each year....that’s the equivalent of planting almost 250,000 trees for 10 years.” Revet also added: “Adhesives are just the start. Imagine the environmental difference brand owners and manufacturers could make if primers, inks and topcoats on their packaging could be plant-based too.”

Like DSM’s other Decovery® plant-based resins, SP-6400XP is made from ingredients such as tree bark and castor beans that are sustainably sourced. All of these ingredients have been carefully selected by DSM to ensure they do not compete with the food chain in any way. Furthermore, these natural ingredients can be obtained and used far more sustainably than fossil-fuel-based materials.

As a result of their plant-based construction, Decovery® resins contain zero-to-low VOCs, underlining DSM’s commitment to creating products which are kind to our planet and the people who inhabit it. However, DSM

understands that while the packaging industry is eager for more sustainable products, consistently-high performance is essential. So SP-6400XP delivers a performance equal to DSM's non-bio based NeoCryl® BT-9.

With the launch of SP-6400XP, DSM is offering brand owners, formulators and converters a welcome opportunity to remove another layer of oil-based materials from the packaging production process.

###

To follow

In the coming weeks, expect another announcement from DSM on the launch of Decovery® SP-6200XP, a plant-based resin recommended for primers, inks as well as topcoat layers.

Explanation of terms used

VOC

Volatile Organic Compounds. These are organic chemicals that have a high vapor pressure at ordinary room temperature. Long-term indoor exposure to VOCs is associated with health issues such as breathing problems, nausea, fatigue and throat irritation.

NaOH

The molecular formula of sodium hydroxide (commonly referred to as 'caustic soda'). It is used in starch-based adhesives. Highly corrosive in its solid form.

PET

Polyethylene terephthalate. A thermoplastic polymer resin of the polyester family. It is commonly used in clothing fibres, liquid and food containers as well as general manufacturing.

DSM – Bright Science. Brighter Living.™

Royal DSM is a global, purpose-led, science-based company active in Nutrition, Health and Sustainable Living. DSM's purpose is to create brighter lives for all. DSM addresses with its products and solutions some of the world's biggest challenges while simultaneously creating economic, environmental and societal value for all its stakeholders – customers, employees, shareholders, and society at large. DSM delivers innovative solutions for human nutrition, animal nutrition, personal care and aroma, medical devices, green products and applications, and new mobility and connectivity. DSM and its associated companies deliver annual net sales of about €10 billion with approximately 23,000 employees. The company was founded in 1902 and is listed on Euronext Amsterdam. More information can be found at www.dsm.com.

Or find us on: 

For more information:

DSM Coating Resins

Marjolein Bijsterveld

Tel: +316 25 71 37 29

E mail: marjolein.bijsterveld@dsm.com

Forward-looking statements

This press release may contain forward-looking statements with respect to DSM's future (financial) performance and position. Such statements are based on current expectations, estimates and projections of DSM and information currently available to the company. DSM cautions readers that such statements involve certain risks and uncertainties that are difficult to predict and therefore it should be understood that many factors can cause actual performance and position to differ materially from these statements. DSM has no obligation to update the statements contained in this press release, unless required by law. The English language version of the press release is leading.