

July 25, 2022

POLYCON CO., LTD.

POLYCON launches “POLYCON RB-1”, a rice bran wax dispersion with 100% biomass fraction

First alcohol-based rice bran wax dispersion in the industry!

POLYCON CO., LTD. (Head Office: Saitama, Japan / CEO: Koji Shinohara) has launched commercial rollout of POLYCON RB-1, a rice bran wax dispersion developed focusing on use of biomass-derived ingredients to keep pace with current trends in improving product environmental performance to help establish a recycling-oriented society. This product is the first additive* for paints and inks featuring dispersed rice bran wax in isopropyl alcohol (IPA).

* Based on interviews with wax manufacturers and ink and paint manufacturers and our own surveys.

Rice bran wax is a nonedible biomass ingredient produced by degumming crude wax acquired by purifying byproducts of the rice bran oil extraction process, which is subsequently processed with solvents. Remarkably friendly both to humans and to the environment, the material is used in cosmetics to achieve temperature stability and gloss, to adjust texture for a smoother feel on skin, and to add polishing or exfoliating properties. It is also used as a substitute for petroleum wax, which functions as glossing agents for the rubber or plastic materials used in tires, construction materials, and home electronic appliances. But while rice bran wax offers superior functionality and environmental performance, the workability of rice bran wax alone is relatively poor.

A liquid wax product ideal for use as an additive, POLYCON RB-1 is manufactured by dispersing rice bran wax in IPA and optimizing particle size and viscosity. It can be used as an additive for gravure printing inks applied to food packaging, construction materials, and automotive parts; for paint used in construction and other industries to add abrasion resistance and anti-blocking properties.

Since rice bran wax is a plant-derived material, POLYCON RB-1 is highly biodegradable, with reduced CO₂ emissions when burned, contributing to environmental sustainability and carbon neutrality—and the ubiquity of rice production worldwide eases any concerns about supply stability.

For more details, please refer to the [Product Catalog \(PDF\)](#).

Or, visit us on the web at www.polycon.co.jp/en/product/#menu02



[Product catalog \(PDF\)](#)

As a product that promotes resource recycling and contributes to the establishment of a sustainable production and consumption scheme, POLYCON RB-1 will help you create finished products that protect health, help establish safe and comfortable environments, and contribute to a sustainable future.

----- Contact information for this product -----

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