

LICOCARE® RBW VITA

# The power of rice bran waxes in coatings and inks



Greater chemistry

# High-performance sustainable alternative to conventional waxes

## Bio-based, non-food-competing and free of microplastics and PFAS

Meet increasing demand for sustainability without compromising on performance. Licocare® RBW Vita offers an innovative bio-based solution that enables the control of gloss, retains durability, and can be a great alternative to synthetic and montan waxes while aligning with sustainability preferences. Derived 100 % from renewable rice bran, Licocare® RBW Vita achieves exceptional and adjustable qualities through plant-based sourcing. It can already be found in powder coatings, polish and care, leather, textiles, lubricants, coatings, construction, industrial, agriculture, inks, OPVs, and many more applications.

### RENEWABLE

The Vita designator indicates a renewable carbon index (RCI) above 98 %.



VITA Natural ingredients

### SUSTAINABLE

All Licocare® RBW Vita solutions are excelled with our EcoTain® label.



ECOTAIN®

### ENVIRONMENT-FRIENDLY

Licocare® RBW Vita products are tested and rewarded with certificates by TÜV Austria.



### DISTINCTIVE MARKET

Licocare® RBW Vita do not carry hazard labels and have been granted a Gold Material Health Certificate.



#### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**  
**Classification (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

**2.2 Label elements**  
**Labelling (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.





## Rice bran wax solutions with varied properties are ready to perform in your formulations

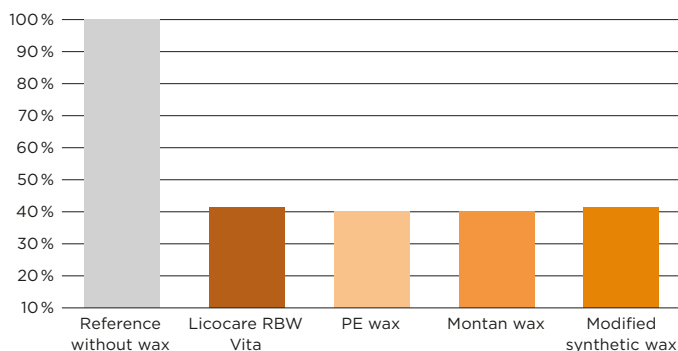
| PRODUCTS              | DROP POINT<br>[°C] | ACID NUMBER<br>[mg KOH/g] | SAPONIFICATION<br>NUMBER<br>[mg KOH/g] | VISCOSITY<br>[mPa*s] | CA-CONTENT<br>[%] | APPEARANCE/<br>PARTICLE SIZE (D <sub>50</sub> )<br>[µm] |
|-----------------------|--------------------|---------------------------|--|----------------------|-------------------|---|
| Licocare RBW 101 Vita | - 75               | - 20                      | - 100                                  | - 20                 | n/a               | Flakes, Powder  |
| Licocare RBW 102 Vita | - 75               | - 50                      | - 115                                  | - 20                 | n/a               | Flakes, Powder  |
| Licocare RBW 106 Vita | - 75               | - 130                     | - 170                                  | - 20                 | n/a               | Flakes  |
| Licocare RBW 300 Vita | - 100              | - 10                      | - 75                                   | - 80                 | - 1.4             | Flakes, Powder  |
| Licocare RBW 330 Vita | - 105              | - 15                      | - 72                                   | - 1000               | - 1.8             | Flakes, Powder  |
| Ceridust 1041 Vita    | - 75               | n/a                       | n/a                                    | n/a                  | n/a               | - 8   |
| Ceridust 1060 Vita    | - 75               | n/a                       | n/a                                    | n/a                  | n/a               | - 12  |

# Discover the power of high-performing waxes for coatings applications

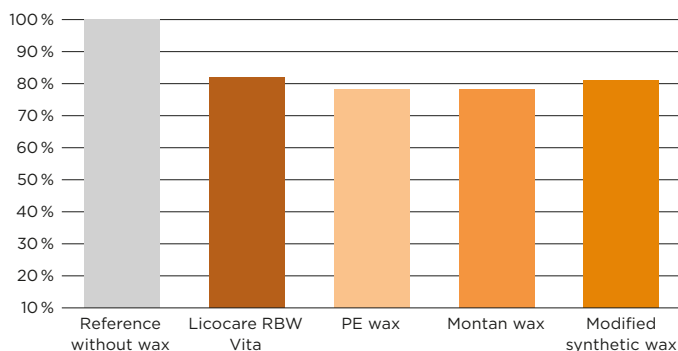
## Licocare® RBW Vita in waterborne formulations can outperform standard waxes

In coatings, micronized versions of rice bran wax can provide waterborne formulations with the same transparency as conventional waxes while improving sliding friction and scratch resistance. They also provide good matting.

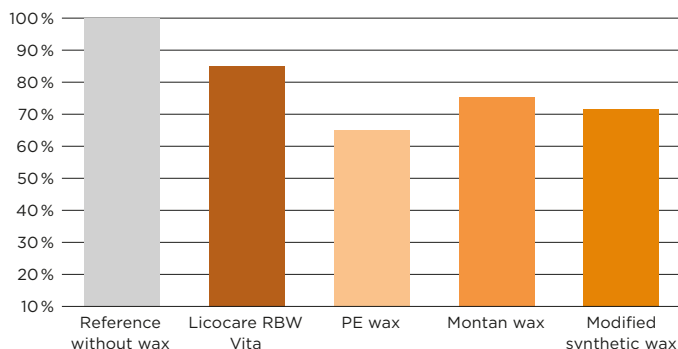
### GLOSS 60°



### COEFFICIENT OF FRICTION



### TRANSPARENCY



### SCRATCH RESISTANCE

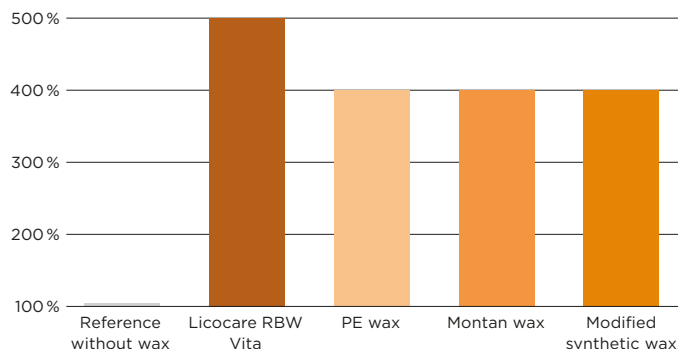


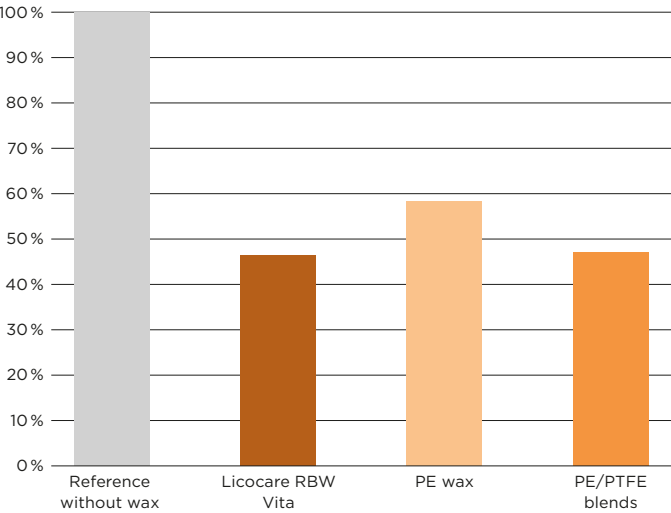
Figure 1: Application results in waterborne polyurethane dispersion wood coating.



# Micronized versions of Licocare® RBW Vita are used in printing ink applications for improved performance compared to market standards

Rice bran wax products can positively contribute to gloss, rub and scratch resistance, anti-set-off behavior and are suitable for water-borne, solvent-borne, 1K, 2K, and UV applications across diverse chemical systems. Our goal with Licocare® RBW Vita is to significantly improve the sustainable and technical performance of different applications within the coatings and ink industries.

COEFFICIENT OF FRICTION



COLOR DIFFERENCE

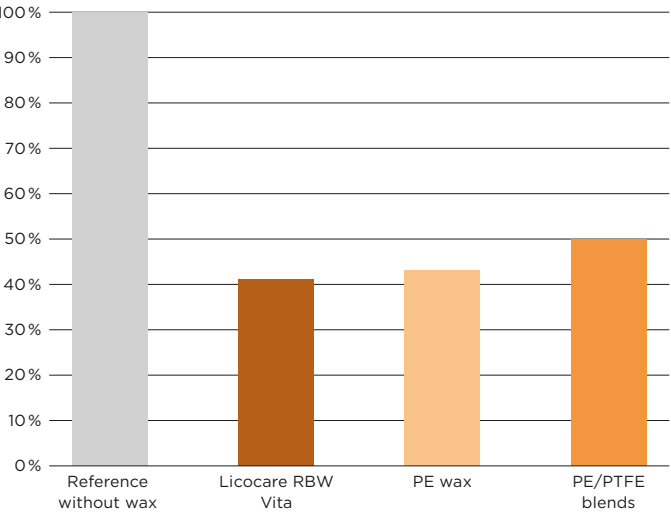


Figure 2: Application results in waterborne flexographic printing ink

# Innovate agricultural formulations with Clariant's renewable Licocare® RBW Vita

Transform coatings and films for agriculture with our innovative Licocare® RBW Vita wax solutions. These renewable additives unlock new possibilities for boosting performance, efficiency, and sustainability. As microplastics-free additives with low carbon footprint, Clariant's sustainable Licocare® RBW Vita waxes set new standards without compromising on results.

For fertilizers, seeds and adjuvants, Licocare RBW additives can:

- enhance flowability, anti-caking and anti-dusting properties
- enable controlled release, improve wash-off properties, increase product efficiency

Leverage Clariant's deep application know-how and extensive experience with wax chemistry. Our specialists partner with customers to develop cutting-edge solutions aligned to market needs.

## LICOCARE® RBW VITA SIGNIFICANTLY ENHANCES THE FLOW AND ANTI-CAKING PROPERTIES OF COATED FERTILIZERS, SEEDS AND OTHER GRANULES



Without Licocare® RBW Vita

With Licocare® RBW Vita

## MORE WATER-RESISTANT AGRICULTURAL COATINGS FOR IMPROVED CONTROL OVER EFFECTS



Without wax

Synthetic wax-based coating

Licocare® RBW Vita  
wax-based coating

Mineral wax-based coating





## Elevate care product performance with Licocare® RBW Vita

Licocare® RBW Vita is a versatile additive that enhances the gloss, shine, and aesthetic appeal of car, shoe, floor, leather, and other care products. It enables smooth application, easy formulation, improved paste consistency, and solvent retention. Suitable for both water-based and solvent-based formulas, Licocare® RBW Vita integrates smoothly to elevate care products with premium quality and sustainability. It is a high-performing additive for diverse consumer and industrial applications that can unlock enhanced visuals and improved functionality. Discover the possibilities by incorporating Licocare® RBW Vita into your formulations.

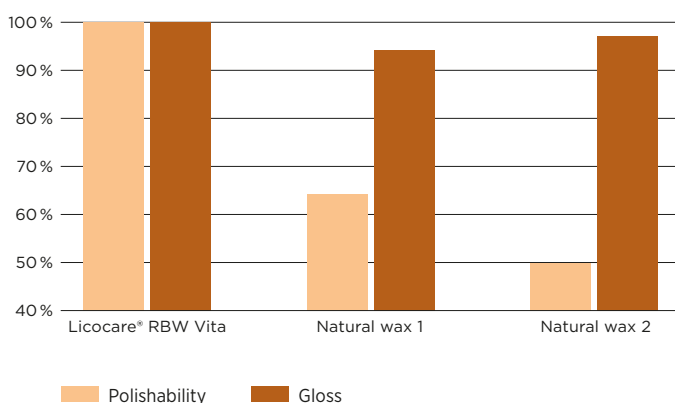


Figure 3: Licocare® RBW vita in water-based car care formulation. Showing improved gloss, as well as easier application and polishability vs. conventional natural waxes. Normalised values with Licocare® RBW as the reference.



**LEARN MORE**

**CLARIANT INTERNATIONAL LTD**

Rothausstrasse 61  
4132 Muttenz  
Switzerland

**BUSINESS UNIT ADSORBENTS & ADDITIVES**

Phone +41 61 469 5111  
Email [adsorbents.additives@clariant.com](mailto:adsorbents.additives@clariant.com)

**CLARIANT.COM/ADDITIVES**  
**CLARIANT.COM**

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. \*Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

\*For sales to customers located within the United States and Canada the following applies in addition  
NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR  
A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE.

® Trademark of Clariant registered in many countries  
© 2024 Clariant International Ltd, Rothausstrasse 61, 4132 Muttenz, Switzerland