Technical data sheet OC-BioBinder[™] Olea 3200



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1. Name of product and the company	
Name of product	OC-BioBinder™ Olea 3200
Intended use of product	Improvement of oil and grease barrier properties of fiber- based material. For industrial use.
Company	OrganoClick AB Linjalvägen 9 SE-187 66 Täby Sweden
Phone number	+46 (0)8 674 00 80
Email	info@organoclick.com
Internet	www.organoclick.com

Product description and uses 2.

The product's intended use is to improve barrier properties such as oil repellency of fiber-based materials.

3. Constituents

The product is composed of an aqueous formulation of modified biopolymers and natural plant compounds.

4. Physical and chemical properties	
Form	Turbid liquid
Colour	Yellow
Odor	Faint
pH-value	3,5-4,5
Solid content	28-30 %
Viscosity	1000-3000 mPas (at 100 rpm, LV4, 23°C). The viscosity will decrease if stirred and/or heated.



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5. Handling

Avoid contact with skin and eyes. Can be slippery if spilled on the floor, so avoid walking through it. Ensure adequate ventilation. Normal precautions taken when handling chemicals should be observed See the Safety Data Sheet for further information.

6. Feasible fibres and material

OC-BioBinder[™] Olea 3200 is optimized for being used together with cellulosic fibers in papers, nonwoven material and other fiber-based materials.

7. Usage instructions

OC-BioBinder^M Olea 3200 is specially intendent for use as an oil and water barrier for cellulosic materials, but the usage instructions are possible to generalize to other, similar application areas. When the intended use of OC-BioBinder^M Olea 3200 is as a binder rather than a barrier coating, a higher dilution (1:1 to 1:2) is recommended to get a better spreading through the material.

7.1 Area of use: Oil and water barrier

1. Apply the product to the material preferably by knife coating or impregnation, aiming at an add-on of 3-10 g/m2 (dry weight) of the dry matter.

To find the optimal add-on for a specific material, apply different add-ons within the range above, during separate test runs and then evaluate the material's performance. If dilution is needed to lower the viscosity, the product can be diluted with water to any proportions. Dilutions should be used within one day.

2. Dry the treated material at 100 - 180 °C until completely dry.

Temperatures above 150 °C are preferred. A yellow shade will be seen when the curing process of the film has started. This is when the barrier is formed and the material can therafter be removed from the heat.

3. Apply a layer of OC-Biobinder™ Lotus 3305 on top of OC-Biobinder ™ Olea 3200 to improve water repellency

The water barrier property of the fibre material is improved if a layer of OC-Biobinder[™] Lotus 3305 is applied after the drying described in step 2. Application of OC-Biobinder[™] Lotus 3305 can be made according to step 1-2 above.

7.2 Area of use: Binder

1. Apply the product to the material by impregnation, spraying, coating or foaming aiming at an add-on of 8-15 % of the dry matter of the final product.

To find the optimal add-on for a specific material, apply different add-ons within the range above, during separate test runs and then evaluate the material's performance. If dilution is needed to lower the viscosity, the product can be diluted with water to any concentration.



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2. Dry the treated material at 100 - 180 °C until completely dry. Temperatures above 150 °C are preferred.

8. Cleaning of Equipment

After using the product all equipment must be properly cleaned by scrubbing them with water and dishwashing liquid. Equipment that is not possible to scrub (e.g. pipes and spraying nozzles) shall be flushed thoroughly with water.

9. Storage

Store in tightly closed original container in a well-ventilated area. The binder is best stored at room temperature or colder (above freezing).