

Technical data sheet

OC-BioBinder™ Lily 32XX



11 april 2016
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1. Name of product and the company

Name of product	OC-BioBinder™ Lily 32XX, i.e. 3250-3299
Intended use of product	Improve mechanical properties of fiber-based material. For industrial use.
Company	OrganoClick AB Linjalvägen 9 SE-187 66 Täby Sweden
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2. Product description and uses

The product's intended use is to improve mechanical properties such as wet and dry strength of fiber-based materials and to enhance material softness.

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, transparent – can become cloudy with time
Colour	Yellow, light yellow
Odor	Faint
pH-value	2.1 – 2.3
Viscosity	80-100 mPas (at 10 rpm, LV1, 23°C).

5. Handling

Avoid breathing mist/vapours/spray. 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™ Lily is optimized for being used together with cellulosic fibers in nonwoven material, airlaid paper and other fiber-based materials.

7. Usage instructions

The following usage instructions standard of the OC-BioBinder™ Lily product is performed on cellulosic airlaid material.

- 1. Dilute the product with water to a solid concentration less than 10 %.**
Initial solid concentration is 25.5 %
The wet strength will be higher if diluted to less than 10 % since this gives a better spreading of the binder during the application. Make it a habit to always stir before use. If dilution is needed, it is done with hot or cold water followed by stirring. During dilution the binder will go from colorless/slightly yellow to white turbid. The dilution should be used within one day.
- 2. Apply the diluted product to the material by impregnation, spraying, coating or foaming aiming at an add-on of 4-12 g /m² 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. Foaming is gained with standard foaming procedures and foaming chemicals.
- 3. Dry the treated material at 100 - 180 °C until completely dry.**
Dry strength is achieved at 100 °C and above.
Wet strength is achieved at 140 °C and above.
The treated material may turn yellow/brown if exposed to temperatures above 100 °C for too long time.

8. Cleaning of Equipment

After using the product all equipments shall 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).

The information in this technical data sheet consists of guidelines from the OC-BioBinder™ X2XX Safety Data Sheet, OrganoClick AB test results, accumulated knowledge and experience with the product. The information is not to be used as basic data or verification for other tests or systems. OrganoClick AB does not take responsibility for any other usage areas or any misuse of the OC-BioBinder™ Lily product. The latest edition of this technical data sheet can be requested from OrganoClick.