

KOMO® product certificate

The layout of the cover page depends on the model of the relevant CI, only the orange bar at the bottom is mandatory.

Bio-based resins for use in coatings on wood and wood-like materials

Number "KV number"
Published: "date"
Valid until indefinite period/"date"
Replaces: "old KV number".
d.d. : "date"

Certificate holder

"Company name"

"Street company"

"Place of business"

PO Box "number"

"Location post office box"

Tel. "number"

Email "mail address"

Factory at If applicable

"Name of factory"

"Street factory"

"Place factory"

Importer If applicable

"Importer's name"

"Street importer"

"Place importer"

Explanation of "name CI"

This product certificate has been issued on the basis of AD 0826, Bio-based resins for use in coatings on wood and wood-like materials dated 02-07-2021 in accordance with the "name of certification regulations" of "name of CB".

The quality system and the product characteristics of this product are periodically checked. On the basis of this, "name CI" declares that there is justified confidence that:

The product delivered by the certificate holder on delivery complies with:

- The technical specification laid down in this product certificate;
- The product requirements laid down in this product certificate and in the AD

Provided that the product / packaging / delivery document is / are provided with the KOMO® mark in a way as indicated in this product certificate.

For "name CI"

"signature"

"name of signatory"

This product certificate consists of "number" pages

This product certificate has also been included on the websites of the KOMO Foundation (www.komo.nl and www. Komo-online.nl).

Users of this product certificate are advised to check whether it is still valid.

For this purpose, please consult the website of "name CI": "website CI".



Assessed:
• Quality system
• Product
Periodic inspection

1. TECHNICAL SPECIFICATION

This product certificate relates to the product characteristics of "*name of product*". The bio-based content, the corresponding class and the suitability of the bio-based resin for application in "*tested applications include*" are included in this certificate.

2. MARKS AND INDICATIONS ON THE "**PRODUCTS / PACKAGING / DELIVERY DOCUMENTS**".

The **products/packages/delivery notes** shall be marked:

- The designation KOMO® or the KOMO® trademark followed by the certificate number.
The implementation of the brand is as follows:



- Name of certificate holder
- A batch number;
- The expiry date or production date with a shelf life;
- Depending on the bio-based content, the class in which the resin falls.

3. TERMS AND DEFINITIONS

For terms and definitions, please refer to Chapter 2 of the AD.

4. PRODUCT FEATURES

The table below shows the values of the product characteristics that are part of this product certificate. They comply with the values specified in the table.

4.1 Bio-based content of the resin

Table 1. Bio-based content of the resin

Product name	method	Bio-based content	
		(%)	class]
...	Method B or C ASTM D6866	...	...

4.2 Bio-based resin applied in a guideline formulation

In order to establish the product characteristics of a bio-based resin and to determine its suitability for use in a coating, the bio-based resin was tested in a guideline formulation developed by the certificate holder.

4.2.1 Percentage of VOC present in the guideline formulation

Table 2. Percentage of VOCs present in the guideline formulation

Product name	Guideline	method	VOC content	Requirement
...	Annex ...	NEN-EN-ISO 11890-2	...	≤ 130 g/l

4.2.2 Bio-based resins applied in a guideline formulation for film forming midcoat and topcoat systems. If applicable (if application is not tested this will be indicated on the certificate)

In order to determine the product characteristics of a bio-based resin and to determine its suitability for use in an exterior coating, the bio-based resin is tested in a formulation developed by the resin supplier. For the tested formulation, see appendix I.

Table 3. Properties and associated requirements after critical drying

Product name	Feature	method	Requirement	complies Y/N
...	water uptake	SKH-Publ. 08-02	≤ 250 g/m ²	
	adhesion after water uptake	SKH-Publ. 05-01	≤ class 1	

Table 4. Properties and associated requirements after complete drying

Product name	Feature	method	Requirement	complies Y/N
...	water uptake	SKH-Publ. 08-02	≤ 150 g/m ²	
	adhesion after water uptake	SKH-Publ. 05-01	≤ class 1	

Table 5. Properties and associated requirements after varying load of moisture and frost

Product name	Feature	method	Requirement	complies Y/N
...	Adhesion after the last freezing step	SKH-Publ. 05-01	≤ class 1	
	Blistering	NEN-EN-ISO 4628-2	Not permitted	
	Cracking	NEN-EN-ISO 4628-4	≤ 1S1	
	Flaking	NEN-EN-ISO 4628-5	Not permitted	

Table 6. Properties and related requirements after accelerated/natural weathering for a midcoat system

Product name	Feature	method	Requirement	complies Y/N
...	Adhesion	SKH-Publ. 05-01	≤ class 1	
	Blistering	NEN-EN-ISO 4628-2	Not permitted	
	Cracking	NEN-EN-ISO 4628-4	≤ 1S1	
	Flaking	NEN-EN-ISO 4628-5	Not permitted	
	Chalk	NEN-EN-ISO 4628-6	≤ class 1	
	Gloss level	NEN-ISO 2813	No requirement	
	Colour retention	NEN-EN-ISO 11664-4	No requirement	

Table 7. Properties and related requirements after accelerated/natural weathering, for a topcoat system

Product name	Feature	method	Requirement	complies Y/N
...	Adhesion	SKH-Publ. 05-01	≤ class 1	
	Blistering	NEN-EN-ISO 4628-2	Not permitted	
	Cracking	NEN-EN-ISO 4628-4	≤ 3S1, 2S2, 2S3	
	Flaking	NEN-EN-ISO 4628-5	Not permitted	
	Chalk	NEN-EN-ISO 4628-6	≤ class 2	

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	Gloss level	NEN-ISO 2813	No requirement	
	Colour retention	NEN-EN-ISO 11664-4	No requirement	

4.2.3 Bio-based resins applied in a guideline formulation for non- and semi film forming coatings on non-dimensionally stable timber.

If applicable (if application is not tested this will be indicated on the certificate)

In order to establish the product characteristics of a bio-based resin and to determine its suitability for use in non- and semi film-forming coatings on non-dimensionally stable timber, the bio-based resin is tested in a guideline formulation developed by the resin supplier. For the tested formulation, see appendix II.

Table 8. Properties and associated requirements after complete drying

Product name	Feature	method	Requirement	complies Y/N
...	adhesion after water uptake	SKH-Publ. 05-01	≤ class 1	

Table 9. Properties and associated requirements after accelerated / natural weathering

Product name	Feature	method	Requirement	complies Y/N
...	Flaking	NEN-ISO 4628-5	Class 0	
	Discolouration	NEN-ISO 4628-6	Class 2*	
	Adhesion (wet and dry)	SKH Publication 05-01	≤ class 1	
	Paintability after assessment	Processing instructions supplier	Meets **	
	Adhesion (dry) after repainting	SKH Publication 05-01	≤ class 1	

*or completely even discolouration

** After cleaning, the substrate must be suitable for applying a new coating

4.2.4 Bio-based resins applied in a guideline formulation for coatings for interior use, furniture.

If applicable (if application is not tested this will be indicated on the certificate)

In order to determine the product characteristics of a bio-based resin and to determine its suitability for use in an interior coating, the bio-based resin is tested in a formulation developed by the resin supplier. For the tested formulation, see appendix III.

Table 10. Properties and associated requirements after accelerated / natural weathering

Product name	Feature	method	Requirement	Class
...	Ethanol (48%)	EN 12720	@ time	
	Coffee	EN 12720	@ time	
	Water	EN 12720	@ time	
	Mustard (mild)	EN 12720	@ time	
	Red wine	EN 12720	@ time	
	Onion	EN 12720	@ time	

5. SUGGESTIONS FOR THE USER

- On delivery of the products listed under "Technical specification", check whether:
 - Delivered is what was agreed
 - The labelling and the method of labelling are correct
 - The products have no visible defects (e.g. due to transport).
- If you reject on the basis of the foregoing, please contact
 - "name of certificate holder"And if necessary with
 - "name CI"
- Check whether this product certificate is still valid, consult the "CI website" for this.

