SKH
INDEPENDENT
CERTIFICATION

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CERTIFICATE

KOMO® product certificate FILM FORMING MID- AND TOP-COAT SYSTEMS ON TIMBER

Number: **33135/24**
issued: **15-04-2024**
Replaces: **33135/23**

Producer
Teknos B.V.
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Factory at
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SKH declaration
This product certificate has been issued on the basis of AD 0817 'Film forming mid- and topcoat systems on timber' dd. 20-11-2019, in accordance with the SKH Regulations for Certification.

The quality system and product characteristics associated with the Film forming mid- and topcoat systems on timber are checked periodically.

Based on this, SKH declares that:
- There is legitimate confidence that, on delivery, the Film forming mid- and topcoat systems on timber made by the producer comply with:
- the technical specifications recorded in this product certificate;
- the product requirements recorded in this product certificate and in the AD.

Provided that the Film forming mid- and topcoat systems on timber are marked with the KOMO® logo in the manner indicated in this product certificate.

On behalf of SKH Drs. H.J.O. van Doorn, director

Furthermore, this product certificate is included in the overview on the website 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 consult the SKH-website: www.skh.nl.

This product certificate consists of 3 pages and 8 appendices**.**

The following has been assessed:
- **Quality system**
- **Product Periodic check**

KOMO® product certificate
FILM FORMING MID- AND TOPCOAT SYSTEMS ON TIMBER

1 TECHNICAL CPECIFICATION

This product certificate concerns the film forming mid- and/or topcoat system(s) on timber delivered by the producer and their product characteristics.

Note:
The industrial applied paint systems are intended for use on timber in the amongst others following certification standards AD 0801 'Wooden façade elements', AD 0803 'Wooden exterior doors', AD 0806 'Paint application on timber and sheet materials' and AD 0812 'Profiled joinery components'.

2 MARKING

The packaging of the coating products are provided with:
- the word KOMO® and/or KOMO® logo;
- the name of the producer;
- product name;
- product certificate number **33135**;
- batch number;
- a production date with a shelf life and/or a best before date.

The product information shall, in addition to the above, at least state the following information:
- hazardous indications;
- processing instructions.

3 PRODUCT CHARACTERISTICS

3.1 Opaque midcoat systems

Opaque midcoat systems complying with AD 0817 'film forming mid- and topcoat systems on timber'.

Description coating system	Approved colours	Process parameters
2 layers DRYWOOD OPTIFINISH G or -G40	All colours	Appendix A
2 layers DRYWOOD OPTIPRIMER LG	All colours	Appendix A
1 layer DRYWOOD OPTIPRIMER LG and 1 layer DRYWOOD OPTIFINISH G, -G40 or -G70	All colours	Appendix A
1 layer DRYWOOD OPTISEALER and 1 layer DRYWOOD OPTIFINISH G of -G40	Only colours from the white base	Appendix M
3 layers DRYWOOD OPTIFINISH G, -G40 of -G70	All colours	Appendix Q midcoat

For the above mentioned coating systems it is not known, whether they are suitable for wood species which have tannins.

When the coating system is applied in a higher film thickness as described, the final drying has to be extended for at least 4 hours for every additional 15% of dry film thickness applied.

3.2 Opaque topcoat systems

Opaque topcoat systems complying with AD 0817 'film forming mid- and topcoat systems on timber'.

Description coating system	Approved colours	Process parameters
2 layers DRYWOOD OPTIFINISH G or -G40	All colours	Appendix A
1 layer DRYWOOD OPTIPRIMER LG and 1 layer DRYWOOD OPTIFINISH G, -G40 or -G70	All colours	Appendix A
1 layer DRYWOOD OPTIPRIMER LG and 2 layers DRYWOOD OPTIFINISH G, -G40 or -G70	All colours	Appendix F
2 layers DRYWOOD OPTIPRIMER LG and 1 layer DRYWOOD OPTIFINISH G, -G40 or -G70	All colours	Appendix F
3 layers DRYWOOD OPTIFINISH G , -G40 of -G70	All colours	Appendix Q topcoat
1 layer ANTISTAIN AQUA 2901-53 and 2 layers DRYWOOD OPTIFINISH G40 or -G70	All colours	Appendix H

For the above mentioned coating systems it is not known, whether they are suitable for wood species which have tannins.

When the coating system is applied in a higher film thickness as described, the final drying has to be extended for at least 4 hours for every additional 15% of dry film thickness applied.

3.3 Translucent midcoat systems

Translucent midcoat systems complying with the requirements as listed in AD 0817 'Film forming mid- and topcoat systems on timber'.

Description coating system	Lightest approved colours	Process parameters
2 layers DRYWOOD OPTIFINISH TR, SV, GL	D741	Appendix D
2 layers DRYWOOD OPTIFINISH TR (MATT, SG, GL)	D741	Appendix E
3 layers DRYWOOD OPTIFINISH TR (MATT, SG, GL)	D741	Appendix F
3 layers DRYWOOD OPTIFINISH TR (MATT, SG, GL)	D850	Appendix O
2 layers DRYWOOD OPTISEALER TR and 1 layer DRYWOOD OPTIFINISH TR (MATT, SG, GL)	D741	Appendix P

For the above mentioned coating systems it is not known, whether they are suitable for wood species which have tannins.

When the coating system is applied in a higher film thickness as described, the final drying has to be extended for at least 4 hours for every additional 15% of dry film thickness applied.

3.4 Translucent topcoat systems

Translucent topcoat systems complying with the requirements as listed in AD 0817 'Film forming mid- and topcoat systems on timber'.

Description coating system	Lightest approved colours	Process parameters
2 layers DRYWOOD OPTIFINISH TR, SV, GL	D741	Appendix D
2 layers DRYWOOD OPTIFINISH TR (MATT, SG, GL)	D741	Appendix E
3 layers DRYWOOD OPTIFINISH TR (MATT, SG, GL)	D850	Appendix F and O
2 layers DRYWOOD OPTISEALER TR and 1 layer DRYWOOD OPTIFINISH TR (MATT, SG, GL)	D741	Appendix P

For the above mentioned coating systems it is not known, whether they are suitable for wood species which have tannins.

When the coating system is applied in a higher film thickness as described, the final drying has to be extended for at least 4 hours for every additional 15% of dry film thickness applied.

4 SUGGESTIONS FOR THE USER

On delivery of film forming mid- and top coat systems on timber check whether:
- the systems comply with the contract of sale;
- the identification and the manner of identification are correct;
- the information sheets have been received;
- the products do not show any visible defects due to transport or similar causes.

If the products are rejected on the basis of the above, contact shall be made with:
Teknos B.V. and if desirable with the certification-body SKH.

4.1 Application and use

The relevant products shall be stored free of frost.

4.2 Product certificate

The producer is obliged to see to it that the buyer has at his disposal on site a copy of the relevant product certificate and the product information.

4.3 Check of validity

Consult the SKH-website: www.skh.nl to verify whether the product certificate is still valid.

5 DOCUMENT LIST

AD 0817 dd. 20-11-2019 'Film forming mid- and topcoat systems on timber'.

Appendix A

Minimal process parameters

Layer 1	**Application**	**Spray**	
	Wet layer thickness		160 – 180 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 4 hours
	Dry layer thickness		60 µm
Layer 2	**Application**	**Spray**	
	Wet layer thickness		160 – 180 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 16 hours
	Dry layer thickness		60 µm
	Final drying	Temp	≥ 15°C
		RH	≤ 75%
		Air velocity	n.a.
		Time*	≥ 32 hours
	Total dry layer thickness		120 µm

* Colours from the dark base (base 3) need final drying for at least 40 hours instead of 32.

Appendix D

Minimal process parameters

Layer 1	**Application**	**Spray**	
	Wet layer thickness		200 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 4 hours
	Dry layer thickness		70 µm
Layer 2	**Application**	**Spray**	
	Wet layer thickness		200 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	Nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 16 hours
	Dry layer thickness		70 µm
	Final drying	Temp	≥ 15°C
		RH	≤ 75%
		Air velocity	n.a.
		Time	≥ 56 hours
	Total dry layer thickness		140 µm

*** This Appendix D is only valid in combination with the SKH-KOMO® product certificate 'Film forming mid- and topcoat systems on timber, number 33135 issued 15-04-2024.**

Appendix E

Minimal process parameters

Layer 1	**Application**	**Spray**	
	Wet layer thickness		210 – 220 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	Nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 4 hours
	Dry layer thickness		70 µm
Layer 2	**Application**	**Spray**	
	Wet layer thickness		210 – 220 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	Nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 16 hours
	Dry layer thickness		70 µm
	Final drying	Temp	≥ 15°C
		RH	≤ 75%
		Air velocity	n.a.
		Time	≥ 32 hours
	Total dry layer thickness		140 µm

*** This Appendix E is only valid in combination with the SKH-KOMO® product certificate 'Film forming mid- and topcoat systems on timber, number 33135 issued 15-04-2024.**

Appendix F

Minimal process parameters

Layer 1	**Application**	**Spray**	
	Wet layer thickness		135 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 4 hours
	Dry layer thickness		50 µm
Layer 2	**Application**	**Spray**	
	Wet layer thickness		135 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 16 hours
	Dry layer thickness		50 µm
Layer 3	**Application**	**Spray**	
	Wet layer thickness		135 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 4 hours
	Dry layer thickness		50 µm
	Final drying	Temp	≥ 15°C
		RH	≤ 75%
		Air velocity	n.a.
		Time*	≥ 48 hours
	Total dry layer thickness		150 µm

*** This Appendix F is only valid in combination with the SKH-KOMO® product certificate 'Film forming mid- and topcoat systems on timber, number 33135 issued 15-04-2024.**

Appendix H

Minimal process parameters

Layer 1	**Application**	**Flowcoat**	
	Viscosity	DC4	12 – 13 sec.
	Wet layer thickness		60 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	15 min.
	Drying (per layer)	Temp	≥ 18°C
		RH	≤ 65%
		Air velocity	≥ 0,2 m/s
		Time	≥ 2 hours
	Dry layer thickness		n.a. penetrates the timber
Layer 2	**Application**	**Spray**	
	Wet layer thickness		180 – 200 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 18°C
		RH	≤ 65%
		Air velocity	≥ 0,2 m/s
		Time	≥ 16 hours
	Dry layer thickness		70 – 80 µm
Layer 3	**Application**	**Spray**	
	Wet layer thickness	White base	180 – 200 µm
		Clear base	240 – 260 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 18°C
		RH	≤ 65%
		Air velocity	≥ 0,2 m/s
		Time	≥ 72 hours
	Dry layer thickness		70 – 80 µm
	Final drying	Temp	≥ 15°C
		RH	≤ 75%
		Air velocity	n.a.
		Time*	n.a.
	Total dry layer thickness		140 – 160 µm

*** This Appendix H is only valid in combination with the SKH-KOMO® product certificate 'Film forming mid- and topcoat systems on timber, number 33135 issued 15-04-2024.**

Appendix M

Minimal process parameters

Layer 1	**Application**	**Spray**	
	Wet layer thickness		160 µm
	Flash off (per layer)	Temp	≥ 15 °C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 23 °C
		RH	≤ 50%
		Air velocity	≥ 0,2 m/s
		Time	≥ 18 hours
	Dry layer thickness		60 µm
Layer 2	**Application**	**Spray**	
	Wet layer thickness		160 µm
	Flash off (per layer)	Temp	≥ 15 °C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 23 °C
		RH	≤ 50%
		Air velocity	≥ 0,2 m/s
		Time	≥ 18 hours
	Dry layer thickness		60 µm
	Final drying	Temp	≥ 15°C
		RH	≤ 75%
		Air velocity	n.a.
		Time*	≥ 72 hours
	Total dry layer thickness		120 µm

*** This Appendix M is only valid in combination with the SKH-KOMO® product certificate 'Film forming mid- and topcoat systems on timber, number 33135 issued 15-04-2024.**

Appendix O

Minimal process parameters

Layer 1	**Application**	**Spray**	
	Wet layer thickness		250 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 4 hours
	Dry layer thickness		80 µm
Layer 2	**Application**	**Spray**	
	Wet layer thickness		200 µm
	Flash off (per layer)	Temp	≥ 15°C
		RH	≥ 60%
		Air velocity	nil
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 16 hours
	Dry layer thickness		65 µm
Layer 3	**Application**	**Spray**	
	Wet layer thickness		200 µm
	Flash off (per layer)	Temp	≥ 15 °C
		RH	≥ 60%
		Air velocity	-
		Time	0 – 15 min.
	Drying (per layer)	Temp	≥ 15 °C
		RH	≤ 60%
		Air velocity	≥ 0,2 m/s
		Time	≥ 4 hours
	Dry layer thickness		65 µm
	Final drying	Temp	≥ 15°C
		RH	≤ 75%
		Air velocity	n.a.
		Time*	≥ 96 hours
	Total dry layer thickness		210 µm

*** This Appendix O is only valid in combination with the SKH-KOMO® product certificate 'Film forming mid- and topcoat systems on timber, number 33135 issued 15-04-2024.**

Appendix P

Minimal process parameters

Layer 1	**Application**	**Spray**	
	Wet layer thickness		100 µm
	Flash off (per layer)	Temp	≥ 15 °C
		RH	≥ 60 %
		Air velocity	nil
		Time	0-15 min
	Drying (per layer)	Temp	≥ 23 °C
		RH	≤ 50 %
		Air velocity	≥ 0,2 m/s
		Time	≥ 4 hours
	Dry layer thickness		ca. 35 µm
Layer 2	**Application**	**Spray**	
	Wet layer thickness		100 µm
	Flash off (per layer)	Temp	≥ 15 °C
		RH	≥ 60 %
		Air velocity	Nil
		Time	0-15 min
	Drying (per layer)	Temp	≥ 23 °C
		RH	≤ 50 %
		Air velocity	≥ 0,2 m/s
		Time	≥ 16 hours
	Dry layer thickness		ca. 35 µm
Layer 3	**Application**	**Spray**	
	Wet layer thickness		250-275 µm
	Flash off (per layer)	Temp	≥ 15 °C
		RH	≥ 60 %
		Air velocity	nil
		Time	0-15 min
	Drying (per layer)	Temp	≥ 23 °C
		RH	≤ 50 %
		Air velocity	≥ 0,2 m/s
		Time	≥ 24 hours
	Dry layer thickness		70-90 µm
	Final drying	Temp	≥ 15°C
		RH	≤ 75%
		Air velocity	n.a.
		Time*	≥ 48 hours
	Total dry layer thickness		140 – 160 µm

Appendix Q

Minimal process parameters

Layer 1	**Application**	**Spray**	**Midcoat**	**Topcoat**
	Wet layer thickness		110 µm	135 µm
	Flash off (per layer)	Temp	≥ 15°C	≥ 15°C
		RH	≥ 60%	≥ 60%
		Air velocity	nil	nil
		Time	0 – 15 min.	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C	≥ 15°C
		RH	≤ 60%	≤ 60%
		Air velocity	≥ 0,2 m/s	≥ 0,2 m/s
		Time	≥ 4 hours	≥ 4 hours
	Dry layer thickness		40 µm	50 µm
Layer 2	**Application**	**Spray**		
	Wet layer thickness		110 µm	135 µm
	Flash off (per layer)	Temp	≥ 15°C	≥ 15°C
		RH	≥ 60%	≥ 60%
		Air velocity	nil	nil
		Time	0 – 15 min.	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C	≥ 15°C
		RH	≤ 60%	≤ 60%
		Air velocity	≥ 0,2 m/s	≥ 0,2 m/s
		Time	≥ 16 hours	≥ 16 hours
	Dry layer thickness		40 µm	50 µm
Layer 3	**Application**	**Spray**		
	Wet layer thickness		110 µm	135 µm
	Flash off (per layer)	Temp	≥ 15°C	≥ 15°C
		RH	≥ 60%	≥ 60%
		Air velocity	nil	nil
		Time	0 – 15 min.	0 – 15 min.
	Drying (per layer)	Temp	≥ 15°C	≥ 15°C
		RH	≤ 60%	≤ 60%
		Air velocity	≥ 0,2 m/s	≥ 0,2 m/s
		Time	≥ 4 hours	≥ 4 hours
	Dry layer thickness		40 µm	50 µm
	Final drying	Temp	≥ 15°C	≥ 15°C
		RH	≤ 75%	≤ 75%
		Air velocity	n.a.	n.a.
		Time*	≥ 96 hours	≥ 96 hours
	Total dry layer thickness		120 µm	150 µm

*** This Appendix Q is only valid in combination with the SKH-KOMO® product certificate 'Film forming mid- and topcoat systems on timber, number 33135 issued 15-04-2024.**