

Technical info

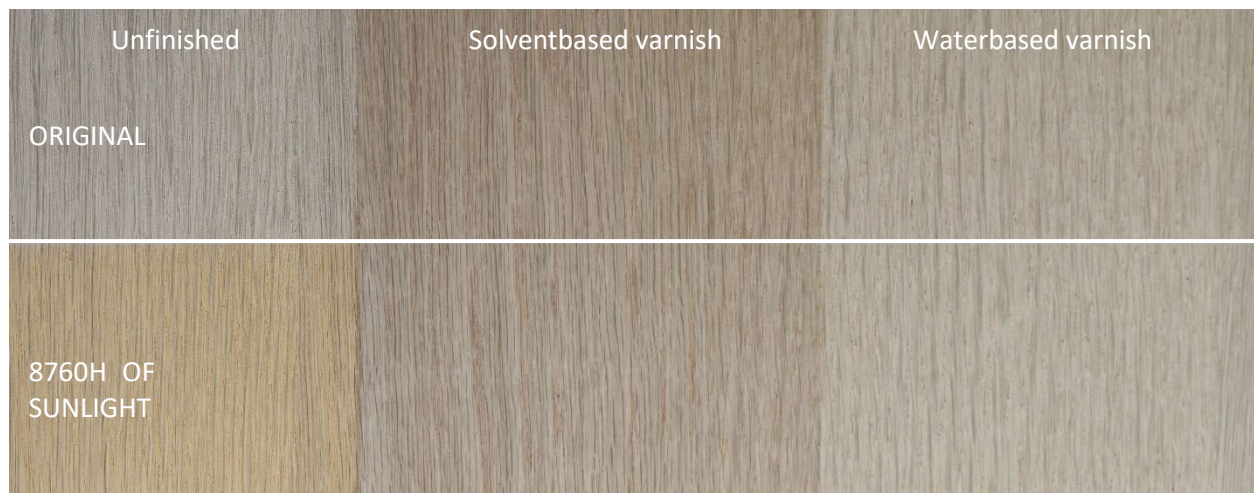
Querkus – finishing advice

1 General information

Querkus panels are produced with the utmost care. To enjoy the product for a long time, appropriate protection is recommended. The Querkus panels are delivered untreated and must therefore be further finished with an oil or varnish.

In this document, we will split the finishing advice between standard finishes and finishes which provide an extra protection to discolouration by sunlight.

2 Varnishing



Grigio

Varnish provides a protective layer on wood. This protects the veneer against moisture and damage from external factors.

There are many different types of varnish and various ways to apply them. Depending on the product, more or less layers must be applied in order to achieve the desired combination of strength and appearance. The type of varnish must thus be selected depending on the end look and intended use of the product: whether the product will be used for wall, cabinet front, worktop and also the location of the final product (shade, # hours of direct contact with sunlight).

Hardwax oil penetrates the wood and bonds with the wood fibres instead of forming a surface film. It protects and colours the wood in a single layer, resulting in a natural and matte appearance.

If you wish to protect Querkus with a varnish or oil, we recommend several products from different suppliers. The first group of recommendations have extra UV protection. The second group are more standard products with a good overall protection, but they have no extra protection regarding discolouration due to sunlight. Always test the system on a small piece prior to production. As such, the final colour and gloss aspect can be validated upfront.

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2.1 Varnish proposals which contain UV blockers

These proposed finishing systems were **specifically selected for our 9 Terra looks, our 3 Infinite looks, the Hoboken and Baltimore look**. However, they can also be used on the other Querkus references.

Rubio Monocoat – Invisible Protector we recommend only to be used on the 9 Terra looks, not on other Querkus references.

All wood veneers, like all materials undergo a colour change due to exposure to Ultraviolet (UV) light, present in sunlight. The colour shift is the largest just after installation and when the veneer is placed in direct sunlight and estimated it stabilises after some time.

This colour change may be reduced by the use of finishes that contains UV inhibitors. These inhibitors neutralise the UV lights and thus slow down the colour change over a larger period of time

After extensive testing, we determined that best results can be obtained when using the following finishing products for use on veneer to help protect against the effects of exposure to Ultraviolet light.

Overview:

- a) Sherwin Williams – ICA (solvent-based finish for spray gun)
- b) Sherwin Williams – OECO (water-based 2K system for spray gun)
- c) Hesse (PUR solvent-based finish for spray gun)
- d) Rubio Monocoat – Invisible Protector (water-based finish)

Product	Product type	Application method	Adagio-Allegro-Vivace	Terra	Infinite	Vintage
Sherwin Williams – ICA	Solventbased	Spray	✓	✓	✓	✓
Sherwin Williams – OECO	Waterbased 2K	Spray	✓	✓	✓	✓
Hesse (PUR)	Solventbased	Spray	✓	✓	✓	✓
Rubio Monocoat– Invisible Protector	Waterbased	Manual	✗	✓	✗	✗

Always verify the safety data sheets and the most recent application instructions on the supplier website.

[https://www.hesse-lignal.com/en_EN/
Polyurethane Coatings for Wood, Acrylic Coatings - ICA Group](https://www.hesse-lignal.com/en_EN/Polyurethane%20Coatings%20for%20Wood,%20Acrylic%20Coatings%20-%20ICA%20Group)
[OECE | Water-based for interiors use](https://www.oeco.com/en_US/Products/Interior%20Finishes/Interior%20Finishes%20-%20Water-based%20for%20interiors%20use)
<https://service.rubiomonocoat.com/invisible-protector>

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a) Sherwin Williams – ICA (Solvent-based finish for spray gun)

➤ Products:

IS210UVE > insulating primer

C200 > Hardener

D1015 > Transparent thinner

FAC300UVE > primer

OAC301G5UVE > Topcoat

➤ Procedure

Process	Procedure / Mixture	Lacquer properties	Application and application quantity g/m ²
1. Wood sanding	P150 crosswise, P150 lengthwise, P220 lengthwise After sanding, make the panels free of dust according to the instructions		
2. Insulating	IS210UVE insulating primer + 10w% C200 hardener + 10w% D1015 thinner	Transparent Lightfast	Pistol: 1,8 nozzle 80 – 100 g/m ²
3. Drying	Overnight drying at room temperature		
4. Sanding	P320		
5. Primer	FAC300UVE Primer + 20w% C200 Hardener + 10w% D1015 Thinner	Transparent Lightfast	Pistol: 1,8 nozzle 80 – 100 g/m ²
6. Drying	Overnight drying at room temperature		
7. Sanding	P400		
8. Topcoat	OAC301G5UVE Topcoat + 10w% C200 Hardener + 20w% D1015 Thinner	Transparent Lightfast Gloss ca. 3-5 (60°)	Pistol: 1,8 nozzle 100 – 200 g/m ²
9. Drying	Overnight drying at room temperature		

Notes:

- 1) Depending on the wanted UV protection: step 5-7 can be repeated upto a total of 3 layers.
Please note that the wood structure will be reduced due to the total varnish application weight.
- 2) Ensure a good mixing of all components immediately before starting productions

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b) Sherwin Williams – OECO (water-based 2K system for spray gun)

➤ Products:

86V-24 > primer

IDRO-CEOPAL 41B-0026 > basecoat / Topcoat

86A-23 > UV absorber

813-54VA > hardener

Water > thinner

➤ Procedure

Prepare basecoat/topcoat mixture :

IDRO-CEOPAL 41B-0026 : 86A-23 : 813-54VA : water

100 : 3 : 10 : 5 to 10

Process	Procedure / Mixture	Lacquer properties	Application and application quantity g/m ²
1. Wood sanding	P150 crosswise, P150 lengthwise, P220 lengthwise After sanding, make the panels free of dust according to the instructions		
2. Primer	86V-24	Transparent	Spray gun Maximum 60 – 80 g/m ²
3. Drying	Min. 6 hours at room temperature		
4. Sanding	P320		
5. Basecoat	Mixture	Transparent Lightfast	Spray gun Maximum 100 - 120 g/m ²
6. Drying	Min. 12 hours at room temperature		
7. Sanding	P320		
8. Topcoat	Mixture	Transparent Lightfast Gloss ca. 3-5 (60°)	Spray gun Maximum 100 – 120 g/m ²
9. Drying	Overnight drying at room temperature		

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c) Hesse (PUR solvent)

➤ Products:

PUR Sun-Blocker DE 4295x (x is the wanted gloss level) > base coat / topcoat
(DE 42950 = low gloss, DE 42952 = gloss 10 and DE 42954 = gloss 20 ; under 60°)
DR4070 > hardener

➤ Procedure

Mixture (volumetric) :

PUR sun-blocker : Hardener

10 : 1

Process	Procedure / Mixture	Lacquer properties	Application and application quantity g/m ²
1. Wood sanding	P150 crosswise, P150 lengthwise, P180 lengthwise After sanding, make the panels free of dust according to the instructions		
2. Primer	Mixture	Transparent Lightfast	Spray gun 100 – 150 g/m ²
3. Drying	Min. 3 hours at room temperature		
4. Sanding	P320		
5. Basecoat	Mixture	Transparent Lightfast	Spray gun 100 - 150 g/m ²
6. Drying	Min. 3 hours at room temperature		
7. Sanding	P320		
8. Topcoat	Mixture	Transparent Lightfast (gloss depending on selected product variant)	Spray gun 100 – 150 g/m ²
9. Drying	Overnight drying at room temperature Fully hardened after 7 days at room temperature		

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d) Rubio Monocoat – Invisible Protector (water-based)

➤ Products:

Invisible Protector: 1 component plant-based resin

➤ Procedure

Apply a minimum of 3 layers with a roller on untreated wood.

Prior to application, let Invisible Protector stabilise to room temperature (ideally between 18 and 25 °C). Ideal humidity is not over 70%. Shake the Invisible Protector jerrycan thoroughly until any settlement has disappeared.

Process	Procedure / Mixture	Lacquer properties	Application and application quantity g/m ²
1. Wood sanding	Sand the surface according to the desired smoothness (grit 120) and make sure the surface is free of scratches. Thoroughly remove sanding dust with a vacuum cleaner. Finish immediately after sanding (because of the oxidation of the wood).		
2. First layer	Invisible Protector	Transparent Lightfast	Roller ca. 80 g/m ²
3. Drying	3 - 4 hours		
4. Second layer	Invisible Protector	Transparent Lightfast	Roller ca. 80 g/m ²
5. Drying	6 - 8 hours (dry to the touch)		
6. Sanding	P220/240 Remove the sanding dust thoroughly		
7. Third layer	Invisible Protector	Gloss ca. 2,5 - 3 (60°)	Roller ca. 75 g/m ²
8. Drying	16 - 24 hours (overnight) at room temperature		

Notes:

When applying a third layer you can add 10% Invisible Protector Component B to the product to make the surface even stronger. Stir well until a homogeneous mixture is obtained. This is mostly recommended for public spaces, countertops in bathrooms and kitchens, food trays and other stain-sensitive surfaces, since the B component increases stain resistance. The B component is also compliant with the certificates obtained.

The product can also be applied with a spray gun (1,8 nozzle).

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2.2 Finish proposals without UV blockers

The following two selected varnish systems that will be described in this section are mainly selected for their natural finishing look. These finishes are ideal to be used on our **Allegro, Adagio, Vivace and Harlem look**.

Where the solvent-based finish warms the natural wood colour, the water-based finish can maintain the “raw look” colour of the unfinished panel. Always test the system on a small piece prior to production. As such, the final colour and gloss aspect can be validated upfront.

In addition, Rubio Monocoat **Oil Plus 2C** is available in 40 colours and can be used to tone/colour the veneer. Using a pigmented oil can further help mask natural wood colour changes over time, because of the pigmentation in the oil.

Overview:

- 1) Hesse (PUR water-based finish for roller/spray gun)
- 2) Ciranova (PU water-based finish for roller/spray gun)
- 3) Rubio Monocoat Oil Plus 2C (2K hardwax oil)

Always verify the safety data sheets and the most recent application instructions on the supplier website.

https://www.hesse-lignal.com/en_EN/

<https://www.ciranova.eu/en/distributors> (please contact via the website if no distributor is available in your area)

<https://ciranovastore.com/collections/plus-range> (specific for USA)

<https://service.rubiomonocoat.com/oil-plus-2c-1>

Product	Type	Application method	Adagio – Allegro – Vivace	Terra	Infinite	Hoboken	Baltimore	Harlem
Hesse (PUR)	Water-based	Roller / Spray	✓	✗	✗	✗	✗	✓
Ciranova (PU)	Water-based	Roller / Spray	✓	✗	✗	✗	✗	✓
Rubio Monocoat Oil Plus 2C	2K hardwax oil	Manual	✓	✗	✗	✗	✗	✓

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2.2.1 Varnish

a) Hesse (PUR water-based)

➤ Products:

For new installations (no renovations), Hesse advises the use of a brightening primer HG21 or the wood tone enhancing primer HG22.

HESSE PURA-NATURA HDE 52-0 > basecoat

HDR 72 > hardener

➤ Procedure

Mixture (volumetric) :

PURA-NATURA : Hardener HDR 72.

10 : 1

Process	Procedure / Mixture	Lacquer properties	Application and application quantity g/m ²
1. Wood sanding	P120 crosswise, P120 lengthwise, P150 lengthwise After sanding, make the panels free of dust according to the instructions		
2. Primer (HG21 or HG22)	80 - 100 gr/sqm		Short haired roller (6-8 mm microfiber) or Spray gun > dilution with 5wt% water
3. Drying	3 hours at room temperature		
4. Sanding	P120 - P150		
5. base coat	80 - 100 gr/sqm	Gloss ca. 3-8 (60°)	Short haired roller (6-8 mm microfiber) or Spray gun > dilution with 5wt% water
6. Drying	3 hours at room temperature		
7. Sanding	P120 - P150		
8. base coat	80 - 100 gr/sqm	Gloss ca. 3-8 (60°)	Short haired roller (6-8 mm microfiber) or Spray gun > dilution with 5wt% water
9. Drying	3 hours for touch dry 8 hours for fully dried 7days for final chemical crosslinking		

Note:

- 1) After sufficient drying: first maintenance with Hesse PROTECT-CLEANER PR 90.
- 2) Do not store material to which hardener has been added in closed containers. Do not use electric mixers due to risk of foaming or bubble formation!
- 3) The drying times are strongly dependent on the applied quantities, the room temperature, the humidity and the ventilation

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b) Ciranova (PU – water-based)

➤ Products:

Woodlook Plus > basecoat / topcoat

Hardener Fortico > Hardener

➤ Procedure

Mixture (volumetric) :

Woodlook Plus : Hardener Fortico

10 : 1

Process	Procedure / Mixture	Lacquer properties	Application and application quantity g/m ²
1. Wood sanding	P120 crosswise, P120 lengthwise, P150 lengthwise		
2. Primer	80 - 100 gr/sqm		Short haired roller (6-8 mm microfiber) or Spray gun
3. Drying	4 – 6 hours at room temperature		
4. Basecoat	80 - 100 gr/sqm		Short haired roller (6-8 mm microfiber) or Spray gun
5. Drying	12 – 24 hours at room temperature		
6. Sanding	P180 – P220		
7. Primer	80 - 100 gr/sqm	Gloss ca. 3-8 (60°)	Short haired roller (6-8 mm microfiber) or Spray gun
8. Drying	30min drying to be dust dry		

Note:

- 1) Shake the Woodlook plus recipient well before opening.
- 2) Stir the Woodlook plus liquid after opening.
- 3) The drying times are strongly dependent on the applied quantities, the room temperature, the humidity and the ventilation
- 4) Use the Hardfloor Fresh cleaner for periodic maintenance – the product was designed for flooring, but is also perfectly suitable for wall panel applications. Also available via the proposed distribution points.

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2.2.2 Oil

1) Rubio Monocoat – Oil Plus 2C (2K hardwax oil)

➤ **Products:**

Oil Plus (A) + Accelerator (B)
40 standard colours that can be blended

➤ **Procedure**

Mixture (volumetric) :
Oil (A) : Accelerator (B)
3 : 1

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- Drying time: 12-24h
- Curing time: 5 days (80% in 2 days)
- Working temperature: 8-30°C
- Humidity application range: 35% - 60%

Process	Procedure / Mixture
1. Wood sanding	P120 crosswise, P120 lengthwise, P150 lengthwise
2. Clean the surface	Vacuum thoroughly, eliminate remains of dust with Rubio Cleaner and wait until the surface is completely dry.
3. Mix	Stir the A component until a homogenous mixture is obtained. Carefully mix the two components (1 to 2 minutes) with a ratio of appr. 3 units A to 1 unit B.
4. First coat	Spread out a small quantity of Oil Plus 2C using a spatula, a beige/red Rubio Monocoat Scrubby pad or hand sander with a small beige 5.9 inch Rubio Monocoat pad (you can also use the Rubio Monocoat Mouse Pad for smaller objects and corners)
3. Drying	Let absorb a few minutes. Wipe away all excess oil with a cloth or a hand sander with a small white 5.9 inch Rubio Monocoat pad. Finish off with a cloth within max. 30 minutes. The surface should feel non-sticky!

Note:

- 1) Stir the product well before application.
- 2) When using several containers at one site, it is required to mix them for an even result
- 3) After application, the surface may appear a bit glossy. This will disappear after cleaning 2-3 times with Universal Soap, Surface Care, All Natural Wood Cleaner or All Natural Wood Cleaner Spray.

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