Technical info

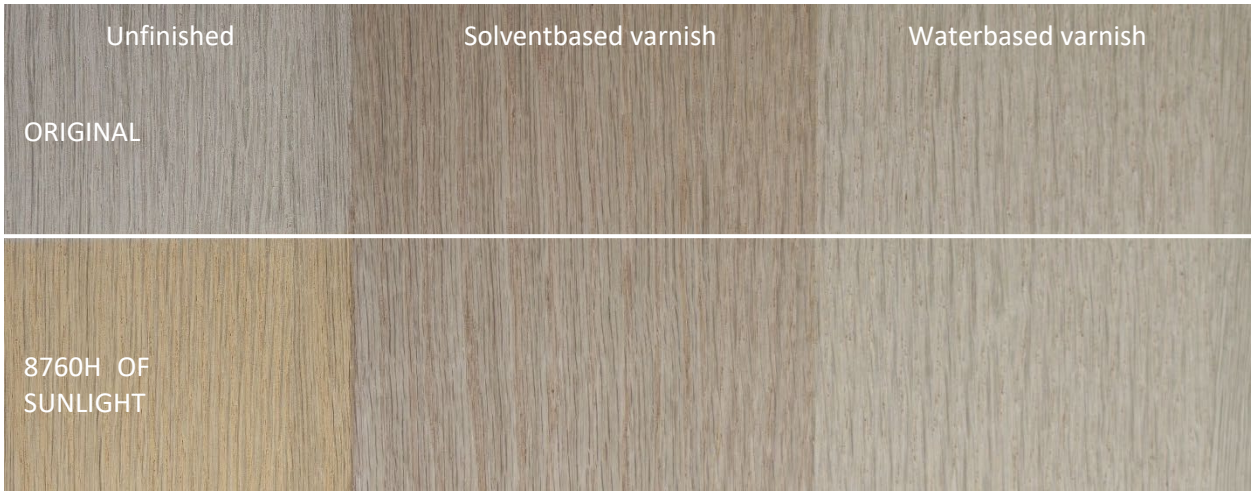
Querkus – finishing advice

QUERKUS®
FINEST OAK
COLLECTION

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 advise 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.

If you wish to protect Querkus with a varnish, we recommend several products from different suppliers. The first group of recommendations have extra UV protection. The second group is 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.

2.a 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.

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 Ultra Violet 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)

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
OECE | Water-based for interiors use

Technical info

Querkus – finishing advice

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/m²**
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/m²
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/m²
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/m²
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

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/m²**
1. Wood sanding	P150 crosswise, P150 lengthwise, P220 lengthwise After sanding, make the panels free of dust according to the instructions		
2. Primer	86A-23	Transparent	Spray gun Maximum 60 – 80 g/m²
3. Drying	Min. 6 hours at room temperature		
4. Sanding	P320		
5. Basecoat	Mixture	Transparent Lightfast	Spray gun Maximum 100 - 120 g/m²
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/m²
9. Drying	Overnight drying at room temperature		

c) Hesse (PUR solvent)

➢ **Products:**

PUR Sun-Blocker DE 4295**x** (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/m²**
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/m²
3. Drying	Min. 3 hours at room temperature		
4. Sanding	P320		
5. Basecoat	Mixture	Transparent Lightfast	Spray gun 100 - 150 g/m²
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/m²
9. Drying	Overnight drying at room temperature Fully hardened after 7 days at room temperature		

Technical info

Querkus – finishing advice

2b Varnish 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.

Overview:

a) Hesse (PUR water-based finish for roller/spray gun)
b) Ciranova (PU water-based finish for roller/spray gun)

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)

Technical info

Querkus – finishing advice

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/m²**
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

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/m²
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.