

ACCOYA®



WE MAKE PAINT SPECIAL

SUSTAINABLE & INNOVATIVE SINCE 1898



ANKER STUY VERVEN

We have been making paint special for more than three generations. We give colour to projects with a guarantee on quality, resulting in satisfied customers for over a century's that value sustainable quality, society and the environment. Anker Stuy Coatings has its finger on the pulse of innovation and the many changes in the world of paint and timber. What will the composition be like in fifteen years? What legislation and regulations must we take into account? By asking these questions now, we can respond quickly to possible changes and Anker Stuy's laboratory is central to this.

ACCOYA

Accoya wood is produced by Accsys at its plant in Arnhem, the Netherlands. Accsys is transforming fast-growing, certified sustainable wood into Accoya wood using a patented acetylation process. The result is a high-performing product with superior environmental credentials compared with other man-made materials which have a greater carbon footprint. This gives the world the choice to build sustainably, developing new opportunities for the built environment.



WHY CHOOSE ACCOYA AND ANKER STUY

- ✓ The Accoya process positively impacts the life of wooden building components: no wood damage and greatly reduced shrinkage and swelling. As a result, coatings last much longer than on standard wood species and require very little maintenance.
- ✓ Longer life cycles make coated Accoya ideal for extreme situations where maintenance is difficult or expensive. Think of high-rise buildings.
- ✓ Total cost of ownership is lower with Accoya than with any other wood species.
- ✓ Low environmental impact means that coated Accoya performs better in LCA and CO² emissions than any other competing material.
- ✓ Anker Stuy Coatings has years of experience working with Accoya and has coating solutions for all possible uses.
- ✓ Anker Stuy Coatings and Accoya have set up joint outdoor exhibitions to demonstrate the longevity of coating systems.



WINDOWS, DOORS AND FRAMES

	Type of finish	1 st coat	2 nd coat	3 rd coat
Opaque	Tri-cryl, in gloss, semi-gloss or semi-matt	Hydrolux Primer	Hydrolux Primer	Hydrolux Topcoat
	Bio-based / alkyd gloss	Ankolux Primer/ Midcoat	Ankolux Primer/ Midcoat	Ankolux Topcoat Gloss
	Bio-based / alkyd semi-gloss	Ankolux Primer/ Midcoat	Ankolux Primer/ Midcoat	Aplex Topcoat Semi-gloss
Translucent	Tri-cryl in gloss, semi-gloss or matt	Hydrolux Topcoat 16-0200 or 17-0699 Colour impregnation	Hydrolux Topcoat	Hydrolux Topcoat
	Bio-based / alkyd gloss	Aplex TP satin 16-0200 Ankolux Basestain	Aplex TP satin 17-0695 Ankolux Woodcoat TP Indu	Aplex TP satin 17-0695 Ankolux Woodcoat Indu
	Bio-based / alkyd semi-gloss	Aplex TP satin	Aplex TP satin	Aplex TP

Note: For dark colours we recommend two layers of Topcoat and one layer primer
Total film thickness when dry 150 µm

MAINTENANCE INTERVALS

Service interval times depend on detailing and degree of load.

	Moderate Exposure	Mild Exposure	Extreme Exposure
Opaque light colours	13-15 years	12-14 years	7-9 years
Opaque dark colours	11-13 years	10-12 jr	5-7 years
Translucent colours	9-11 years	8-10 years	4-6 years



ACCOYA AND BLACK FINISHES

Accoya is characterised by little or no shrinkage and swelling and is therefore ideal to be coated in dark colours such as black. Normally, wood coated with black colouring can reach 85°C in summer and cause the wood to shrink dramatically. With Accoya, shrinking occurs far less and therefore outdoor durability is better resulting in longer maintenance intervals. Our wood co-

atings are highly elastic so any minor shrinkage is compensated for. In combination with this, Anker Stuy uses very high-quality colour pigments (comparable to the automotive industry), ensuring that our dark colours have less sheen and colour degradation than standard pigments and therefore black still looks uniformly black for years to come.



CLADDING

The following options are available for cladding:

- ✓ Non-film-forming finish based on Ankolux Basestain. With a non-film-forming finish, the wood structure is fully visible while leaving a matt finished surface. With this product, Accoya facade cladding can be finished in a large number of transparent and a select number of opaque colours. Pre-greying of Accoya is also possible with this product.
- ✓ Semi-film-forming finish based on Ankolux Woodstain. This includes both translucent and full opaque finishes in an enormous range of colours. With 3 layers of Ankolux Woodstain, a thin layer forms on the wood with a silky matt appearance. The structure of the wood remains partially visible.
- ✓ It is also possible for extra depth with translucent finishes by applying Ankolux Basestain as the first layer and a layer of Ankolux Woodstain on top.

	1 st coat	2 nd coat	3 rd coat
Non film forming	Ankolux Basestain 150 g/m ² All sides	Ankolux Basestain 100 g/m ² All sides	
Semi film forming opaque	Ankolux Woodstain DE 120 g/m ² All sides	Ankolux Woodstain DE 100 g/m ² All sides	Ankolux Woodstain DE 30 g/m ² Front side only
Semi film forming opaque	Ankolux Woodstain TP 120 g/m ² All sides	Ankolux Woodstain TP 100 g/m ² All sides	Ankolux Woodstain TP 30 g/m ² Front side only
Semi film forming opaque	Ankolux Basestain 150 g/m ² All sides	Ankolux Woodstain TP 120 g/m ² All sides	Ankolux Woodstain TP 30 g/m ² Front side only
Pre-greyled	Ankolux Basestain 150 g/m ² All sides		
Pre-greyled opaque colours	Ankolux Basestain 150 g/m ² All sides	Ankolux Woodstain TP 120 g/m ² All sides	

MAINTENANCE INTERVALS FOR FACADE

The length of the maintenance interval depends on the detailing and degree of stress.

	Non-film forming	Semi-Film forming
Opaque light colours	N/A	10-12 years
Opaque dark colours	N/A	8-10 years
Translucent colours	N/A	6-8 years

COLOUR SAMPLES



C 501 IVORY 1



C 502 VANILLA 1



C 503 SAND



C 504 BLACK 2



C 505 LIGHT GREY 1



C 506 SMOKE - OLIVE GREEN



C 506 SMOKE 3



C 507 GREY 1



C 508 GREY PURPLE 1



C 509 2



C 510 FIREBRICK 2



C 511 ORANGE 2



C 513 DARK GREEN 2



C 514 DARK GREY 2



DURFORD TP 1



TR 4131 BRIDGEWATER



SHR TEST REPORT

BRL -0817 Outdoor durability by accelerated weathering according to EN part 9276 - AA Woodstain

Anker Stuy Verven B.V. has sent us a request to test a number of primer and topcoat paint systems for out-door durability according to SKH BRL 0821 "National Assessment Guideline for the KOMO® product certificate for non- and semi film forming coatings on non-dimensionally stable timber" (version 2012-07-11). BRL 0821 is followed for both accelerated weathering and natural weathering.

On 9-11-2017 Anker Stuy Verven B.V. commissioned the testing of the following semi-film forming paint system against the performance requirements of BRL 0821: 3 layers of Ankolux Aqua Woodstain Indu TP with a total dry film thickness of $\mu\text{m}75$

Processing instructions:

Before applying the first coat, sand all around with K120. Apply the first layer all around (maximum $\mu\text{m}100$ wet), drying time at least one hour^{3,5}. Before applying the second coat, carry out intermediate sanding with K240. Apply second layer all around (maximum $100\mu\text{m}$ wet), drying time at least one hour^{3,5}. Apply a third coat on the visible side (maximum wet film $100\mu\text{m}$).

Table 2.

Results of adhesion baseline measurement and after 12 weeks accelerated weathering with QUV and 1 week after overwintering after 12 weeks accelerated weathering with QUV.

Sample	Colour	Dry adhesion*	Wet adhesion**	Coat thickness [μm]***
5.1	TR1520	0	0	44-48
5.2	TR1520	0	0	38-48
QUV5.1	TR1520		0	
QUV5.2	TR1520		0	53
QUV5.3	TR1520	0		63
QUV5.1.2	TR1520	0		
QUV5.2.2	TR1520	0		
QUV5.3.2	TR1520	0		

* adhesion determined according to SKH-Publication 05-01

(scale 0-5; 0 = complete adhesion and 5 = complete detachment)

** adhesion determined according to SKH-Publication 05-01 after soaking the incised pattern for 1 hour

(scale 0-5; 0 = complete attachment and 5 = complete detachment)

*** determined by microscopic evaluation.

Table 3.

Results of the colour measurements, average of 6 measurements per panel after 12 weeks accelerated weathering by QUV.

Sample	colour	Reference			After weathering			Colour difference			
		L*	a*	b*	L*	a*	b*	ΔL^*	Δa^*	Δb^*	ΔE_{ab}
QUV5.1	TR1520	50,94	16,13	33,74	45,06	15,09	26,93	-5,88	-1,04	-6,81	9,06
QUV5.2	TR1520	51,82	16,62	35,38	45,34	15,25	27,31	-6,48	-1,37	-8,07	10,44
QUV5.3	TR1520	49,75	15,92	33,08	44,37	14,82	26,29	-5,38	-1,10	-6,79	8,73

Table 4.

Results of the gloss measurements, average of 6 measurements per panel, after 12 weeks accelerated weathering by QUV.

Sample	colour	Gloss Units,		
		Start	End	Gloss difference
QUV5.1	TR1520	14	11	-3
QUV5.2	TR1520	14	10	-4
QUV5.3	TR1520	13	9	-4



TERRACES, GARDEN FURNITURE, FENCES AND MORE.

For protection of Accoya in or around your garden we recommend never using film-forming varnishes for horizontal parts. Always choose our Ankolux Basestain which impregnates deeply into the wood but leaves no lacquer film. When Accoya is used in decking, fences or similar applications, moisture will always be absorbed into the wood. In order to make the wood easy to maintain, it is important

that the wood is not coated with any film forming paint or stain. Accoya's low shrinkage and swelling characteristics mean that little or no cracking will occur in the wood despite its non-film forming finish. With the right colour choice, ageing can be prevented. It is also possible to choose colours that will give a pre-mature greying effect.

	1 st coat	2 nd coat
Opaque and translucent colours	Ankolux Basestain 150 g/m ² approx.	Ankolux Basestain 100 g/m ² approx.
Pre-greied	Ankolux Basestain 150 g/m ² approx.	n.a.



AVOID EXTREME WATER ABSORPTION

Like other types of wood, Accoya takes up a lot of water from the end-grain, therefore additional protection is important. In joints this can be done by choosing a moisture resistant adhesive that meets the requirements of SKH BRL 0819, see "link" for more details.

Cut ends should be treated with two good layers of Hydrolux End Grain Sealer.



semi-manufacture

SKH
 Nieuwe Kanaal 8c, 6709 PA Wageningen, the Netherlands
 PO Box 159, 6700 AD Wageningen, the Netherlands
 Telephone: +31 (0)317 453425
 Email: mail@skh.nl
 Website: <http://www.skh.nl>

FILM-FORMING PRIMING AND FINISHING SYSTEMS FOR WOOD

Number: 33155/19
 Issued: 1.10.2019
 Replaces: 33155/19 (14.03.2019)

Producer

Anker Stuy Verven B.V.
 Hellingwal 1
 8407 EM TERWISPEL,
 THE NETHERLANDS
 Tel +31 (0)513 465000
 Fax +31 (0)513 465030
 Email: info@ankerstuy.nl
 Website: <http://www.ankerstuy.nl>

Declaration by SKH

This product certificate is issued on the basis of AD 0817 'Film-forming priming and finishing systems for wood' dated 14.09.2018, in accordance with the SKH Regulations for Certification.

The quality system and product properties associated with the 'Film-forming priming and finishing systems for wood' are checked on a regular basis.

Based on this, SKH declares that:

- There is legitimate confidence that, on delivery, the film-forming priming and finishing systems for wood 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 priming and finishing system for wood' carries a KOMO® mark as indicated in this product certificate.

On behalf of SKH:  H.J.O. van Doorn, Director

This product certificate is also included in the overview on the website of the KOMO Foundation: <http://www.komo.nl>.

Users of this product certificate are advised to check whether this product certificate is still valid; please see the SKH website for this: <http://www.skh.nl>.

This product certificate consists of 8 pages and 11 Appendices.



The following has been assessed:
 - Quality system
 - Product
 - One-off performance in the application
 Periodic check

