



**Building Products for Exterior
Sayerlack – May 2024**

Sayerlack is a brand of
The Sherwin-Williams Company



Index

How suggest the proper system

Impregnators-Protective stains

Preservative stain

Thixotropic basecoats: by spray

Intermediate basecoats: by flow coating

Translucent/Lazure topcoats

Pigmented topcoats

2K topcoats

WB exterior colorants

Additives

Products for beams for exterior use

Products for beams for interior use

Decking products

Do by yourself products

SB products

Cladding products

Systems for accoya

Systems for Thermo-treated wood[®]

Technical highlights

Test certification

How suggest the proper system

Define End User Needs asking final customer:

- Type of Items
- Substrates Used
- Application Equipment
- Coating System
- Coating Process
- Certifications
- Specific Requests



IMPREGNATORS: PROTECTIVE STAINS

AM0546/XX Softwood – **Catas/WKI Premium plus** - flow-coating, dipping.

– AM0624/00: AM0546's spray and brush version.

AM0549/XX Hardwood – flow-coating, dipping.

–AM0623/00: AM0549's spray and brush version.

AM0504/XX Softwood and Hardwood, harmonizing and **reducing fiber raising up** – **Catas CQA plus** - flow-coating, dipping, brush and spray.

AM0508/XX Softwood/finger-joint – high harmonizing power (more than AM0504/**) - Flow coating and dipping. The /00 version must be overcoated by AM0458/13 and AZ3120/13 for semi-transparent systems.

AM0303/84, /89 and /93, AM0309/13 and AM0306/89 and /93 impregnators for **Gold** system. To be overcoated by AM0603/91 or AM0609/13 and AZ90**/13 or /89.

AM0550/13 Softwood and Hardwood, white ready to use impregnator (by dipping, flow coating, spray and dipping).

AM0541/13 concentrated version (by dipping, flow coating, spray and dipping).

All the clear version **must be colored with XA4034/**** to provide wood protection from UV rays.



THIXOTROPIC BASECOATS: by SPRAY

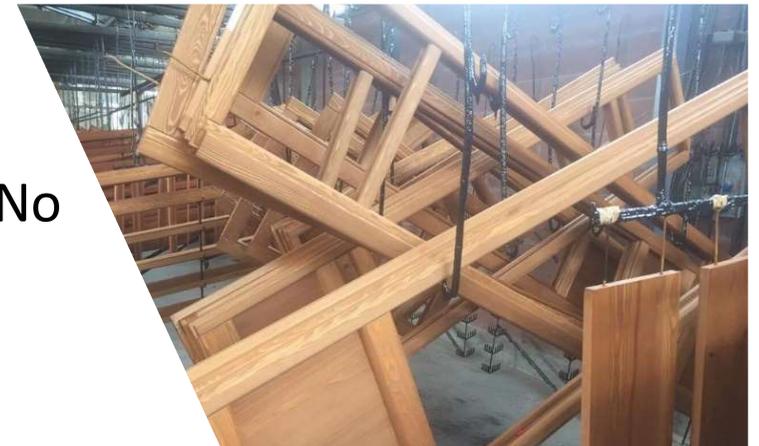
- ✓ **AM0475/N0 and /13** high quality – clear and pigmented, by spray.
- ✓ **AM0473/00, /13 and /85** generic use – clear and pigmented, by spray.
- ✓ **AM0424/N0 and /13** high hiding power and good sanding properties, by spray.
- ✓ **AM0423/N0 and 13** cost effective evolution of AM0424/13 for finger joint, by spray.
- ✓ **AM0458/13** specific for **semi-whitish** or semi-pigmented systems, by spray. To be applied after AM0508/00 and overcoated by AZ3120/00.
- ✓ **AM0609/13** white basecoat for **Gold** system.
- ✓ **AM0562/XX** 2K insulating – clear and pigmented - hardener AH1545/00 10%, by spray.
- ✓ **AM0495/13** 1K insulating for hard wood, pine knots and Russian larch – pigmented by spray.



Look at TDS for amount.

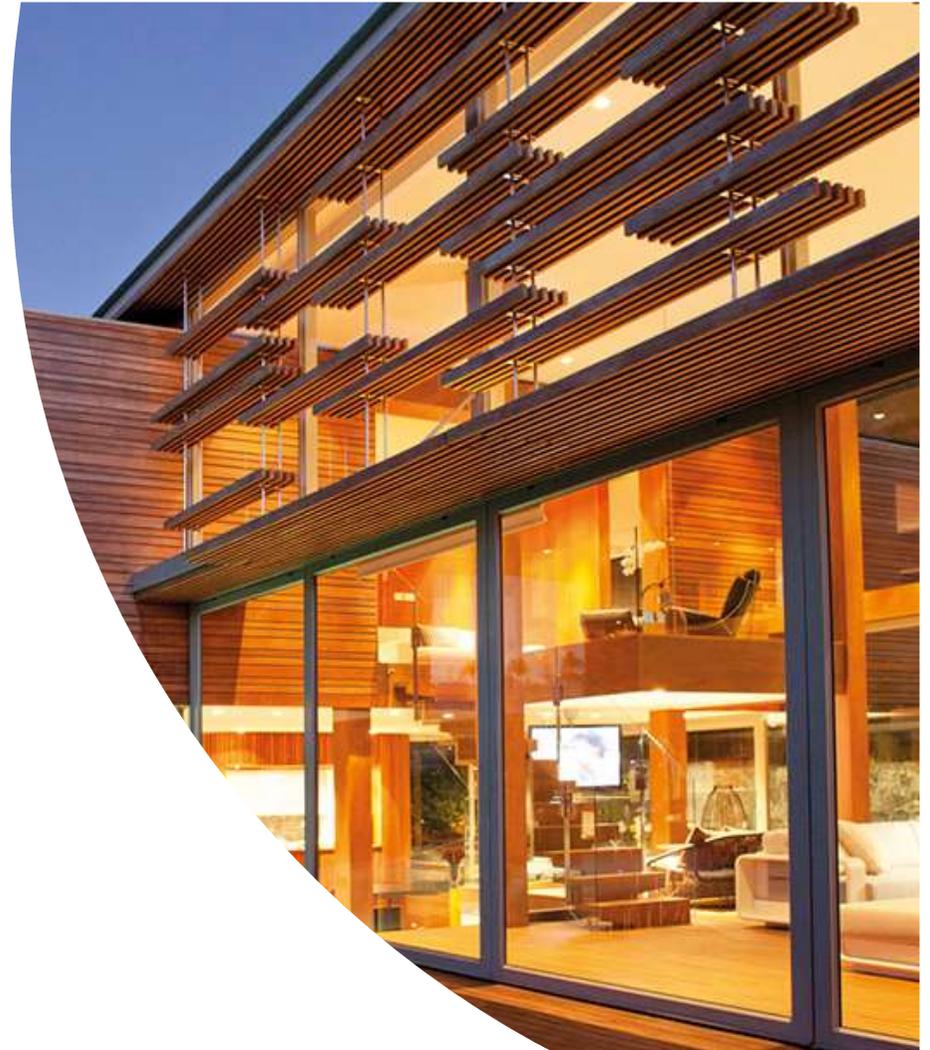
INTERMEDIATE BASECOATS: by FLOW COATING

- ✓ **AM0490/00** generic use for flow coating.
- ✓ **AM0610/00** high quality, with UV adsorber for flow coating.
- ✓ **AM0481/00 and 13** anti-tannin – clear and pigmented for flow coating. Not suitable for Russian larch.
- ✓ **AM0485/13** evolution of AM0481/13.
- ✓ **AM0603/91** intermediate for gold system. No insulating properties on tannin-rich woods.



TRANSLUCENT/LAZURE TOPCOATS

- ✓ **AZ21XX/XX Catas/WKI Premium plus** – generic use - various colours (Spray)
- ✓ **AZ35XX/XX Catas CQA Plus** – high performance of water resistance (Spray)
- ✓ **AZ8130/00** high UV protection for clear and semi-pigmented coating systems (Spray)
- ✓ **AZ9030/86** high protection, patented topcoat **GOLD** (Spray)
- ✓ **AZ3730/00 and **** generic use, lower solid (Spray).
- ✓ **AZ3430/XX** high clarity (Spray).



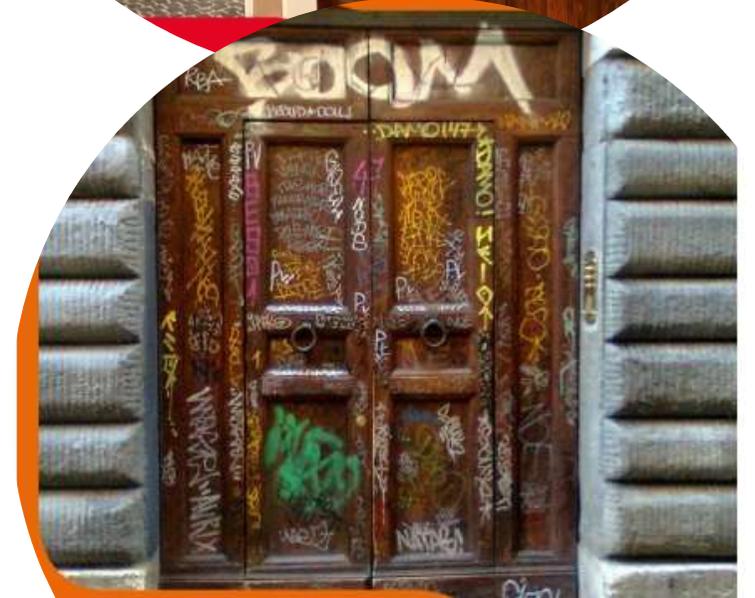
PIGMENTED TOPCOATS: NN & BB

- ✓ **XA99XX/NN & /BB** WB ext converter – high blocking resistance - **Catas CQA** – neutral and white (Spray)
- ✓ **AZ35XX/NN & /BB** New – high durability and low water absorption – neutral and white (Spray)
- ✓ **AZ97XX/NN & BB** generic use (Spray).
- ✓ **AZ69xx/NN & /BB** wb ext converter. Similar to XA99, but with more resin. Also suitable for low pressure gun.
- ✓ More rigid than AZ35**/BB and AZ21**/13, but better for micro-foam.
- ✓ **AZ9030/X13 and BB** high protection, patented coating system GOLD (Spray)



2K TOPCOATS

- ✓ **AZ36XX/XX** Topcoat 2K for Joinery and Exterior doors with high mechanical resistance and insulating power - hardener AH1545 10% (Spray). Same amount of AH1576/00 provides better superficial hardness.
- ✓ **AZ41XX/XX** Topcoat Anti-Graffiti 2K (easy to clean) with high mechanical and chemical resistance - hardener AH1545 25% (Spray)



WB EXTERIOR COLORANTS

CODES	DESCRIPTION
XA2006/XX	Std pastes to colour converters obtaining desired RAL colour.
XA4034/04 XA4034/54 XA4034/57	Iron oxide colorants with higher harmonizing power. Very suitable to colour AM0508/00. Not to be used in base coat or topcoat, because of their high hiding power.
XA4034/53 XA4034/65 XA4034/72 XA4034/52 XA4034/08	Iron oxide colorants to tint exterior wood stains/impregnators.

ADDITIVES

CODE	DESCRIPTION	%
XA4017/00	Additive to restore pH and anti-foaming properties in flow coating impregnator.	0.2-0.5
XA4024/00	High efficiency flow coating defoamer.	0.1-0.5
XA4021/00	Defoamer additive, for top coats.	0.2-1
XA4057/00	Fish eye control additive.	0.5-1
XA4051/00	Additive for waterborne paints, to prevent bad smell formation.	0.1-0.3
XA4060/00	Cleaner for spray equipment.	-----
XA4066/00	Thickener additive.	1-3
XA4016/00	Slow evaporating additive.	1-3
XA4026/00	Slow evaporating additive.	3-6
XA4080/00	Cross linker.	1
XA4009/00	Matting paste.	1-10
XAV7707/00	Tannin blocker additive to be mixed with water 1:10. When perfectly dry, it can be sanded. It can also be added in AM0549/00.	

PRODUCTS for BEAMS for EXTERIOR EXPOSURE

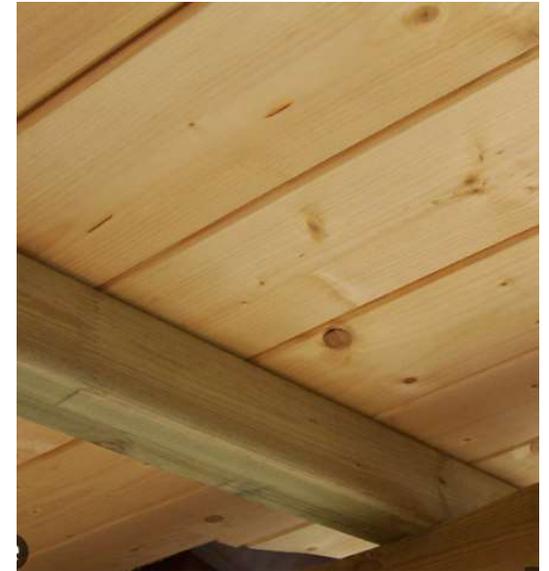
- ✓ **AM0512/00** 1st generation **multicoat** for beams. By brush and automatic impregnating machines.
- ✓ **AM0612/**** last generation **multicoat** with wax. By brush and automatic impregnating machines.
- ✓ **AM0637/13** last generation white multicoat. By brush and automatic impregnating machines. AML3835/13's evolution.

All the **clear** versions are **must be pigmented** when applied for exterior.



PRODUCTS for BEAMS for INTERIOR PURPOSE

- ✓ **AM0634/**** only **impregnator** with **anti-grey** formulation on conifer's **knots**. When used for exterior purpose, it is suggested using XA4034/** colorants and it's compulsory using a topcoat. By brush, sponge and spray.
- ✓ **AM0631/**** only impregnator and not suitable to be used without a topcoat for severe exposure conditions. By brush, sponge and spray. Less anti-grey's performances in comparison with AM0634/00.



All previous products for exterior can also be used for interior, but not vice versa.

DECKING PRODUCTS

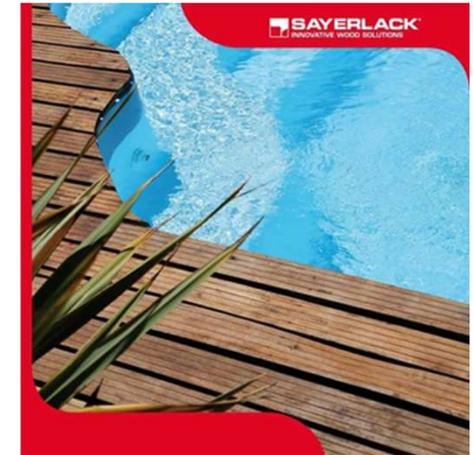
System 1

- _ AML3542/NN colored, specific impregnator for seaside decking.
(in Europe, only the /NN can be sold, but not the N0 or the other colored ready to use for biocide registration).
- _ Light sanding P320,
- _ 2 coats of AZL3541/NN and 85 (5 gloss) or AZL6288/85 (25 gloss) with intermediate sanding.

System 2

- _ AML3542/NN colored
(in Europe the /NN can be sold, specific impregnator for seaside decking: but not the N0 or the other colored ready to use for biocide registration).
- _ Light sanding P320,
- _ 2xAO3805 oil + 1% XA4080/00.

Same systems are also good for fences, exterior furniture, handrails etc...



DO by YOURSELF

WAX IMPOREGNATOR

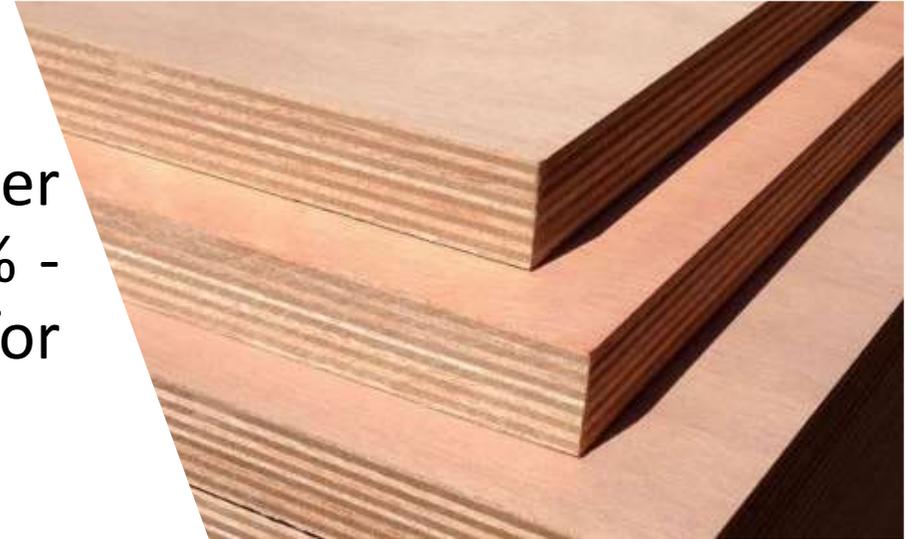
- Raw wood: conifer or broadleaf wood,
- Sanding: P150 or P180.
- HI22XX/XX: 1st coat,
- Sanding: P240/00.
- HI22XX/XX: 2nd coat,
- Sanding: P240/00.
- HI22XX/XX: 3rd coat.

It also possible to use sea-side-decking.



SOLVENTBASED PRODUCTS

- ✓ **TU0218/XX** Pigmented self-sealer (spray) – hardener TH0720/00 30% - high exterior durability – also for tintometric system (13, BB, N0)
- ✓ **TUV2335/XX** Acrylic primer clear and pigmented (spray) – hardener THV7764/00 20%
minimizes water infiltration and phenolic glues exudations - excellent adhesion - could be overcoated with WB topcoats



CLADDING PRODUCTS

AZL6263/00 Clear base for translucent and Pigmented colours, high UV protection

XA73xx Pigmented Multicoat (spray)
– forced drying needed – good stackability – various colours available

AZL3815/00: better if applied after impregnator



PVC PRODUCTS

- ✓ **MZ60xx** Solventbased DTM for difficult substrates – high hiding power - excellent adhesion and hardness - excellent outdoor durability – can be pigmented with TP2009
- ✓ **MZ58xx** Waterbased 2K product – good adhesion – can be pigmented with XA2006
- ✓ **AJ1330** Waterbased product – good adhesion – can be pigmented with XA2006



SYSTEMs for ACCOYA

AM0504/51 -AM0481/00 - AZ3530/85

AM0504/92 -AM04474/00 - AZ3530/85

AM0504/00 -AM0495/13 - AZ3530/85

AM0504/00 -AM0481/00AZ3530/Black - AZ3530/Black

Only for anti-flooding: AM0504/00 + AM0481/00 + AZ3605/00

SYSTEMs for THERMO-TREATED wood ®

A colored impregnator is recommended to prevent thermotreated wood from changing color (AML3542/N0+XA4034/XX better than AM0504/** or AM0623/**).

If customer wants to skip this step, color the oil (**AO3805/00**) using XA4034/XX up to 2,5%. Maximum 5% but color uniformity gets worse. XA2006/** are also possible, but transparency will decrease.

WB oil can last longer than SB.

Suitable for flow coating: from 0,1% to 0,3% of XA4024/00.



Technical Highlights

UNIVERSAL 1K BARRIER PRIMER

Main Features:

ph anionic → no need of dedicated equipment

high solid → high build and hiding power

low water absorption



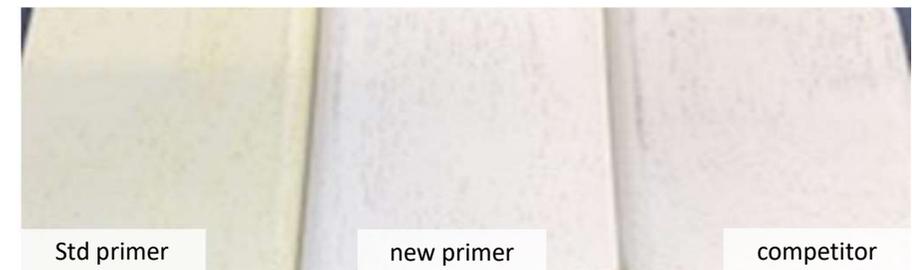
Tested on various timbers:

Pine with knots

Tannic woods (Oak and Chestnuts)

Exotics (Idigbo, Merbau, Sapele etc.)

Accoya



HIGH WHITE POWER STAIN AM0637/13

End Use: Roofbeams, exterior cladding, fences, garden furniture

Application : Brush, Impregnating machine

Number of coats: 1-2

High hiding power and durability

Solid Content : 50%

Features: good resistance to flaking and outdoor durability, can be used as final coat.



Cost-effective stain for Roofbeams

End Use: Roofbeams, Carpentry

Application : Spray, Brush, Sponge

Main Features:

Reduce Grey patch effect that usually happens on low-density timbers (spruce) with rough wood working

Clear, to be pigmented with XA4034 or XA2006



AM0634/00

Competitor

Clear Topcoat High Performance AZ35xx

End Use: Joinery

Substrate: Softwood and Hardwood

Application Equipment: Spray

General Features:

- Excellent water resistance
- Low water absorption
- Good wet adhesion
- Excellent Flexibility, Weathering Resistance

Colors e Gloss available:

AZ3515/00 (clear), 85 (Larch), 89 (Teak)

AZ3530/00 (clear), 85 (Larch), 89 (Teak), 70 (Honey), 88 (Hazelnut), 92 (Walnut)

AZ3575/00 (clear)

Available packsize: 6 Lt – 25 Lt



Solutions for Old Windows Repair

- Sanding to bare wood
- Sealing of cracks with putty filler
- Application of new primer to consolidate the wood: AM0550/xx o AM0570
- Application of V-joint sealer XA0470/00 or XAL3614/xx (clear and white)
- SB sealer TUV2335/xx (clear or white)hardened with 20% of THV7764
- Sanding and application of Basecoat AM0475/xx
- Sanding and Application of Topcoat



DECKING AND GARDEN FURNITURE

Modified woods:

- Chemical treatment → Accoya
- Heating treatment → Thermowood
- Composites → Moso, Resysta

Pros/Cons

- + Low water absorption
- + Resistant to biological attack
- + No resin pockets
- Difficult to treat
- Brittle
- Low Resistance to UV radiation

Critical factors with decking application:

- Abrasion and walkability
- Horizontal exposure (water stagnation)
- Solar cream or chemicals



DECKING AND GARDEN FURNITURE

2K coating system

Stain+ 2K topcoat **AZ3605/00**

Performances: Tannin insulation, chemical and mechanical resistance

Application: Spray, 2 coats

Seasideck Coating System

Stain **AML3542/xx**

Topcoat **AZL3541/NN-85**

Performances: abrasion resistant, good outdoor durability, salt s
Good treatability and adhesion(stain).

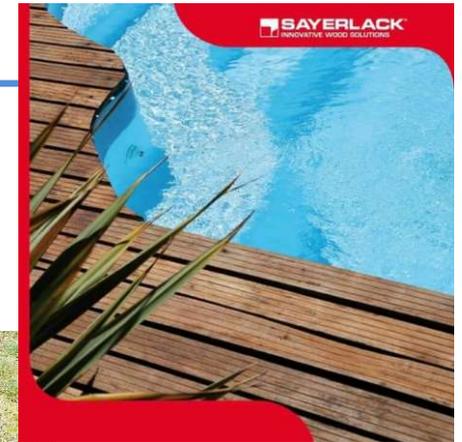
Application: Brush, Spray and wipe, 2 mani

Multicoat

Exterior Oil **AO3805/00**

Performances : Good Adhesion on difficult substrates (exotics or therm
durability. Easy Maintenance.

Application: Brush, Spray and wipe, , 2-3 mani



BIORENEWABLE PRODUCTS

Two different concepts:

Biomass balance

- This principle is based on allocation, in terms of mass balance, of a bio-renewable source used for feeding the cracker (during monomer production), as an alternative to fossil sources
- The obtained products are identical to those obtained by traditional processes, only the refinement process feeding source is different
- A «guarantor» certifying the allocation of the bio-renewable source at the start of production and monomer refining process is needed, together with traceability and documentation, as instrumental certification will not be possible after the process conclusion.

Products from Mass-balance concept:

AZG1030/85



BIORENEWABLE PRODUCTS



Dedicated Production

Substitution of some components of resin's production with identical products made from renewable sources

Vegetal based products not in competition with food chain

It is possible to verify the raw material origin by instrumental analysis (¹⁴C).

Products from Dedicated Production:

AMG0610/00	clear FC basecoat
AMG0473/00	clear spray basecoat
AZG2130/00	clear topcoat
AMG0424/13	pigmented spray basecoat





Tests and Certifications



LAB WEATHERING ACCELARTED TESTS

Artificial Weathering

EN927-6 (QUV-A)

nf297 (Gardner Wheel)

Natural Weathering

EN927-3

Water Permeability

EN927-5

Wet Adhesion (pull-off)

CEN/TC 139



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	CQA	CQA plus	CATAS-WKI Premium	CATAS-WKI Premium PLUS
Natural outdoor exposure	1 year	2 years	1 year	2 years
Translucent system (Dark colors)	✓	✓	✓	✓
Translucent system (Pale colors)	✓	✗	✓	✗
Pigmented Coating System	✓	✗	✗	✗
Inspection Visit	Yes	Yes	Yes	Yes
Competitors	Everyone	IVM Remmers, Sirca	Adler, IVM, Remmers, Sirca	IVM, Remmers, Sirca

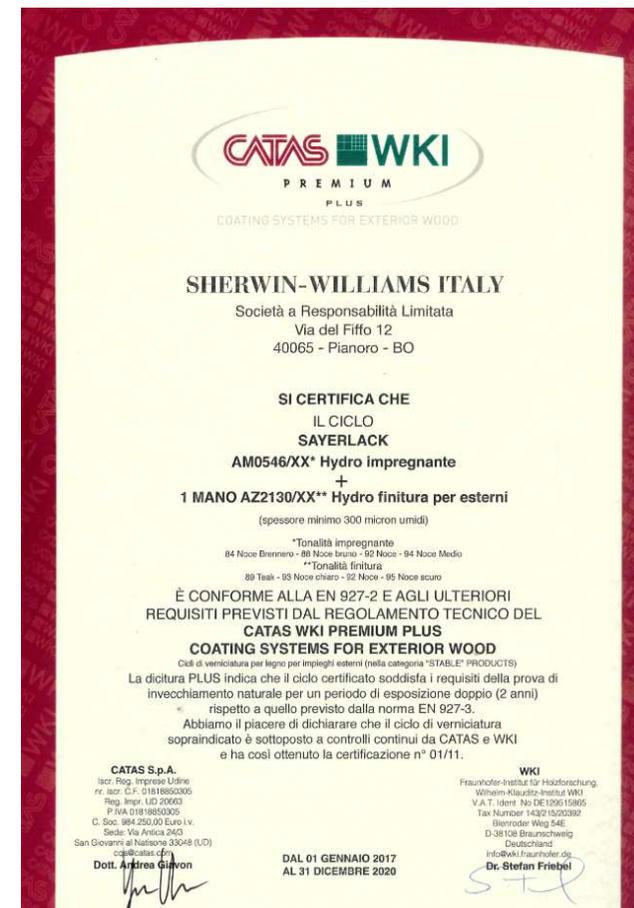
CERTIFICATION



CATAS-WKI Premium Plus
Clear coating system:
AM0546/XX Stain
AZ2130/89 Topcoat

CATAS Quality Award
Pigmented Coating System:
AM0475/13 Basecoat
XA9930/BB Topcoat

<https://catas.com/it-IT/certifications>



CERTIFICATIONS

Stain **AM0504/92**

Topcoat **AZ3530/89**

New Certificate

CATAS Quality Award PLUS

January 2022



Italian Standard UNI 11717:1-2018



COATINGS FOR WOOD JOINERY - PART 1: MINIMAL REQUIREMENTS OF WEATHERING RESISTANCE OF WOODEN SUBSTRATES AND COATING SYSTEMS FOR JOINERY

In force since : June 21, 2018

The standard defines minimal requirements for quality Windows with high outdoor durability:

- Wooden Substrate
- Window Design
- Surface protection (paint)
- Installing

Proprietà	Materiale	Metodo di prova	Requisito	
1	Trasmissione della luce con spessore umido 250 µm	Appendice D	$T_{280-340\text{nm}} \leq 1\%$	
			$T_{380-440\text{nm}} \leq 5\%$	
	Finiture ad alta protezione		$T_{280-340\text{nm}} \leq 1\%$	
			$T_{380-440\text{nm}} \leq 20\%$	
2	Riflessione speculare	Ciclo applicato su supporto standard (vedi EN 927-5)	EN ISO 2813	≥ 20 Gloss
3	Invecchiamento naturale	Ciclo applicato su supporto standard (vedi EN 927-5)	EN 927-5	Categoria stabile secondo EN 927-2
4	Permeabilità all'acqua	Ciclo applicato su supporto standard (vedi EN 927-5)	EN 927-5	$> 30 \text{ g/m}^2$ e $< 175 \text{ g/m}^2$
5	Adesione a Umido	Ciclo applicato su supporto standard	Appendice E	$\geq 0.5 \text{ MPa}$
6	Inciombamento di bolle d'aria	Ciclo applicato su supporto standard (vedere UNI CEN/TS 16358)	UNI CEN/TS 16358	< 30 inclusioni d'aria (bolle) per ogni 10 mm
7	Invecchiamento artificiale	Ciclo applicato su supporto standard (vedi EN 927-6)	EN 927-6	Rotture = 0 Sfogliamento = 0 Blistering = 0 Sfibrinamento ≤ 1 Adesione ≥ 1
8	Stabilità della riflessione speculare (brillantezza)	Ciclo applicato su supporto standard	EN ISO 2813 + EN 927-6	$\Delta \text{Gloss} \leq 50\%$ ¹⁾ (in valore assoluto)
9	Stabilità del colore (laccati)	Ciclo applicato su supporto standard (vedere EN 927-3)	ISO 18314-1 + UNI EN ISO 16474-2 (400 ore)	Scala grigi ≥ 3 0 $\Delta E \leq 3,4$ ²⁾
10	Resistenza al blocking	Ciclo completo su legno (s1) dopo 24 ore di essiccazione a 23/50 (c-1)	UNI CEN/TS 16499	Con una pressione di 10 kPa (p1). Prova a 23/50 per 24 h (t-1); risultato minimo A2, D1.

1) Il valore ΔG viene calcolato come differenza tra la misura della brillantezza effettuata al termine dell'invecchiamento previsto secondo EN 927-6 e quella iniziale ($\Delta G = 100 \times (G_{finale} - G_{iniziale}) / G_{iniziale}$).

2) Il valore ΔE viene calcolato come differenza geometrica nello spazio tricromatico (CIE Lab) tra la misura di colore iniziale e quella effettuata al termine dell'invecchiamento previsto secondo EN 927-3.



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WARRANTIES



Brand	Sayerlack	Sayerlack	Sayerlack
Lifespan (translucent)	15 windows 10 shutters	10 windows 7 shutters	4-6 windows 3-5 shutters
Lifespan (pigmented)	18 windows 10 shutters	10 windows 7 shutters	6 windows 5 shutters
Maintenance	Yes*	No	Yes
Systems	GOLD only	CATAS certified systems	Various
Process sheet	Mandatory	Mandatory	-



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