



■ VERNICI PER LEGNO ■

# ARBOREA

RANGE

WATER-BASED COATINGS  
FOR EXTERIORS



# ARBOREA

The use of water-based coatings on exterior frames and shutters is now commonplace, thanks to the numerous advantages such coatings provide: reduced emissions of solvents into the atmosphere; short application times; excellent elasticity of the coating film and resistance to temperature changes and atmospheric agents; maximum coatability and absence of any risk of self-combustion on the part of the spray fumes.

The backdrop to the formulation of our new coatings is that many joiners are now demanding nothing less than state-of-the-art products in terms of durability, the cost of the original raw materials notwithstanding. This challenge was instrumental in defining the approach of ICA's laboratories to researching and refining its products using state-of-the-art simulation programs that allow for product performance to be tested thoroughly by exposing the products to accelerated ageing cycles.

Today, the **ARBOREA** range represents the perfect combination of rock-solid protection and long-lasting beauty.

The products in the **ARBOREA** range provide such high levels of quality because they:

- contain preservatives that impede the proliferation of fungi and mold;
- contain pigments and UV filters that protect the wooden surface and impede the yellowing and vetrification of the coating film;
- undergo strict internal laboratory testing, not just during the experimental phase but also through subsequent sampling of individual batches, to ensure consistency of production;
- are also tested to external bodies in accordance with stringent regulatory frameworks (including EU standard UNI EN 927) relating to the classification of exterior coating products.





## IMPREGNATING AGENTS

### TRANSPARENT

**IM116 - IM116UC..** Transparent - colored impregnating agent, gives a uniform finish, suitable for all species of wood except Iroko.

**New IM216 - IM216C** Transparent - colored impregnating agent, specially designed for the protection of wood, both in interior (beams, ceilings, matchboards) and in exterior (frames, fences, etc.), affording excellent protection from fungi and mold. Optimum elasticity and external resistance, good penetrating action.

**IM117 - IM117C..** Transparent - colored impregnating agent for wood species with high tannin content (Oak, Chestnut, Framire, Niangon) for maximum flow on these species.

**IM121S - IM121SC..** Transparent - colored impregnating agent for coniferous woods, Mahogany, Meranti and finger-joints, offering excellent light stability and high levels of resistance. Not suitable for woods with high tannin content (Chestnut and Oak).

**IM105 - IM105C..** Transparent - colored impregnating agent specifically for Iroko, offering excellent film-formation and flow in the presence of chlorophorin. Suitable, although not specifically designed, for coniferous woods.

**IM128 - IM128C..** Transparent - colored impregnating agent for trusses and matchboarding in coniferous woods, offering excellent brushability.

**IM109 - IM109C..** Transparent - colored wax impregnating agent for coniferous and broadleaf woods. Aside from the natural effect with which it imbues the wood, its high level of water resistance makes it suitable for exterior use. The second coat should be applied shortly after the first coat.

**IM127** Semi-gloss impregnating top coat for coniferous and broadleaf woods, offering high levels of coverage, whether applied by immersion, brushing or automatic impregnators. Particularly recommended for protecting colored impregnating agents with a thin impregnating top coat.

**New BIOCOCAT** Solvent-free impregnating oil that functions through the water-based emulsion of siccative vegetable oils and boron salts. High penetrative capacity, water-resistant and steam permeable.

**New BIOLACK** Breathable wax effect impregnating agent/top coat, specially designed for the protection of timber (especially roofs and wooden structures in general).

### PIGMENTED

**IM106B** White impregnating agent for coniferous and broadleaf woods. Particularly recommended for woods with extracts. Excellent level of water resistance.

## INTERMEDIATE AGENTS AND SEALERS

### TRANSPARENT

**New IM124** Transparent, brushable intermediate agent, can be applied on top of all transparent or colored impregnating agents.

**New IM441** Transparent, brushable, high-coverage intermediate agent, can be applied on top of all transparent or colored impregnating agents.

### PIGMENTED

**IM126B** Brushable, white impregnating intermediate agent that can be applied over any transparent or white impregnating agent, for lacquered cycles.

**New IM479B** Extra-coverage, brushable white impregnating agent. Excellent coverage and sealant power, high wettability.

## BASE COATS

### TRANSPARENT

**FA34** Transparent monocomponent base coat, suitable for all types of wood. May be applied on top of any transparent or colored impregnating agent.

**FA37** Transparent monocomponent base coat, particularly suited to broadleaf species with extracts. May be applied on top of any transparent or colored impregnating agent. Contains iron oxides, making it slightly tinged.

### PIGMENTED

**FA34B - FA34/N..** White - pigmented monocomponent base coat. May be applied on top of any transparent or colored impregnating agent. Not suitable for woods with extracts.

**FA35B** White bicomponent base coat (catalyze by 10% with CA500). May be applied on top of any transparent or colored impregnating agent. Particularly suited to woods with extracts.

**New FA557B** White, water-based base coat that can be applied vertically. Excellent coverage and sandability.

**New FA364** Semi-charged monocomponent base coat for the creation of water-based pigmented base coats.

## TOP COATS

### TRANSPARENT

**LA321EC (series)** Extra-coverage top coat that may be applied on top of any base coat or impregnating agent. Thanks to its high levels of solid content, it provides extra coverage and effective filtration of UV rays. Can also be used for rapid cycles (one coat of impregnating agent followed by one top coat).

**LA321IEC - LA321MEC** Douglas colored extra-coverage matt - semi-gloss top coat.

**LA321ILEC - LA321MLEC** Larch colored extra-coverage matt - semi-gloss top coat.

**LA321 (series)** Top coat that may be applied on top of any base coat or impregnating agent, offering excellent wettability of the undercoat, exceptional pore definition on broadleaf woods, excellent transparency and good resistance to blocking.

**LA321I - LA321M** Douglas colored matt - semi-gloss top coat.

**LA321IL - LA321ML** Larch colored matt - semi-gloss top coat.

**LA321IBA - LA321MBA** Neutral matt - semi-gloss top coat.

**LA321S (series)** Top coat that may be applied on top of any base coat or impregnating agent, offering low viscosity, high wettability of the undercoat, excellent transparency and good resistance to blocking.

**LA321IS - LA321MS** Douglas colored matt - semi-gloss top coat.

**LA321ISL** Larch colored matt top coat.

**New LA328EC (series)** Extra-coverage matt top coat. Can also be used to create rapid cycles (one coat of impregnating agent and one of top coat).

**LA328IEC** Douglas matt top coat.

**LA328ILEC** Larch matt top coat.

**LA369I** Extra-coverage matt top coat that can be applied to all base coats or impregnating agents. Low viscosity, excellent wettability of the sub-layer, excellent pore definition on coniferous wood species, excellent transparency and resistance to blocking. Intended for the coating of unmounted frames and fixtures, using an in-line spray gun with forced drying through NIR lamps or a mixed oven (microwaves/hot air).

**New LA409 (series)** Nanotechnological matt top coat that can be applied to all base coats or impregnating agents. Excellent wettability of the sub-layer, excellent pore definition on coniferous wood species, excellent resistance to blocking. Its special formulation provides excellent transparency, high levels of water-resistance and a stable matt finish over time.

**LA409I** Douglas matt top coat.

**LA409IL** Larch matt top coat.

**New LA409IG5** Intense matt 'natural effect' top coat that can be applied to all base coats or impregnating agents. Excellent wettability of the sub-layer, short drying times and excellent resistance to blocking. Not recommended for use on particularly dark tones.

### PIGMENTED

**LA321B - LA321P (series)** White - pigmented top coat that may be applied on top of any impregnating agent and white or pigmented base coat. Offers high wettability, exceptional fullness and distension.

**LA321IB - LA321IP/N..** White - pigmented matt top coat.

**LA321MB - LA321MP/N..** White - pigmented semi-gloss top coat.

**LA321IBA - LA321MBA** Neutral, colorable matt - semi-gloss top coat.

**New LA409B - LA409P (series)** Nanotechnological white - pigmented matt top coat that may be applied on top of all top coats and impregnating agents, with high wettability of the sub-layer, excellent pore definition in broadleaf woods and good resistance to blocking. Its particular formulation results in high resistance to water and matt stability over time.

**LA409IBA** Transparent matt base coat for pigmented coatings.

**LA409IB - LA409IP/N..** White - pigmented matt top coat.



## OTHER PRODUCTS

**SA10** Transparent sealers for the tops of the shutters, to be applied on top of the impregnating or intermediate agent.

**POA31** Matting paste for water-based top coats. Reduces undesired top coat gloss.

**PCL** Larch colored correcting paste for transparent, water-based top coats. Transforms douglas colored top coats into larch colored top coats.

**CIA.. (series)** Concentrated colorants for water-based impregnating agents.

**PA.. (series)** Pigmented paste for base coats and top coats.

## THINNERS AND ADDITIVES

**AD58** Anti-foaming additive for flow-coating.

**ACQUAD** Demineralized water for impregnating agents, for use when flow has been inhibited by high temperatures.

**D1059** Retardant thinner for water-based impregnating agents and top coats.

**D1072** Retardant thinner for water-based top coats.

**AAW1** UV-absorber additive for transparent, water-based base coats and top coats.

**AD32** Anti-distension additive for water-based base coats and top coats.

**AD77** Thickening additive for water-based base coats and top coats.

**AD102** Fluidifying additive for water-based base coats and top coats.

## MAINTENANCE

**FASTCLEANER** frames and shutters cleaner.

**New EASYCOAT** transparent conditioner with atomizer, for the monthly maintenance of exterior frames and shutters stained and lacquered, and for the restoration of the coating film.

**IM108** FAST COAT transparent regenerating impregnating agent top coat for the annual maintenance of exterior frames and shutters stained and lacquered, and for the restoration of the coating film.

**LA305PN - LA305PN/N..** FAST FINISH brushable transparent - pigmented top coat.



### EASYCOAT

Transparent conditioner for monthly maintenance (500ml).



### KITH20P (SMALL) CONTAINS:

- Instructions for use.
- FAST CLEANER Neutral liquid detergent for cleaning frames and shutters (500ml).
- FAST COAT Transparent, regenerating, impregnating, water-based top coat for annual maintenance (500ml).
- Cloth for applying FAST COAT.



### KITH20 (LARGE) CONTAINS:

- Frames and shutters maintenance manual.
- FAST CLEANER Neutral liquid detergent for cleaning frames and shutters (500ml).
- FAST COAT Transparent, regenerating, impregnating, water-based top coat for annual maintenance (500ml).
- FAST FINISH Transparent water-based top coat (1000ml).
- Rubber gloves.
- Sandpaper block.
- Cloth for applying FAST COAT.
- Adhesive tape.
- Orel brush.

## Color range

- **IMPREGNATING AGENTS:** the color can be chosen from the sample book of the water-based impregnating agents in the **ARBOREA COLOR** series, which includes 12 colors. Alongside its standard colors, ICA can create color samples on request.
- **PIGMENTED TOP COATS:** the choice of color can be made with reference to three different sample books (**ICA**, **RAL** and **NCS**), which encompass more than 2,300 colors, all of which can be faithfully reproduced thanks to the **ICA Color** tintometric system. ICA can also produce sample colors on request, and can monitor the accuracy of the color using spectrophotometry.

## TRANSPARENT

### 2-COAT CYCLE

Pine and Douglas

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM121SC..	Colored impregnating agent	2-4 hours	40-60 g/m <sup>2</sup>
Brushing after at least 12 hours.			
LA321EC (series)	Top coat	24 hours	275-300 micron

### 3-COAT CYCLE with intermediate

Pine, Dark Red Meranti, Fir, Douglas and Hemlock

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM216C..	Colored impregnating agent	2-4 hours	40-60 g/m <sup>2</sup>
IM124 IM441	Intermediate	2 hours	50-70 g/m <sup>2</sup>
Brushing or manual sanding after at least 12 hours.			
LA321EC (series) LA321 (series) LA321S (series) LA409I (series) LA409IG5	Top coat	24 hours	275-300 microns

### 3-COAT CYCLE with base coat

Pine, Dark Red Meranti, Fir, Douglas, Hemlock and Okoumé plywood

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM216C..	Colored impregnating agent	2-4 hours	40-60 g/m <sup>2</sup>
FA34	Base coat	4 hours	150-175 micron
Manual sanding after at least 12 hours.			
LA321EC (series) LA321 (series) LA321S (series) LA409I (series) LA409IG5	Top coat	24 hours	275-300 microns

### New 4-COAT MAXIMUM PROTECTION CYCLE

Pine, Dark Red Meranti, Oak, Chestnut, Fir, Douglas and Hemlock

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM216C..	Colored impregnating agent	2-4 hours	40-60 g/m <sup>2</sup>
IM441	Intermediate	2-4 hours	40-60 g/m <sup>2</sup>
Manual sanding after at least 12 hours.			
LA409I (series) LA409IG5	Top coat	4 hours	175-200 microns
LA409I (series) LA409IG5	Top coat	24 hours	200-250 microns

### 3-COAT CYCLE for in-line spraying

Pine, Meranti Dark Red, Oak, Chestnut, Fir, Douglas and Hemlock

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM216C..	Colored impregnating agent	2-4 hours	40-60 g/m <sup>2</sup>
LA369I	Top coat	4 hours	150-175 microns
Manual brushing or sanding after at least 12 hours.			
LA369I	Top coat	24 hours	175-200 microns

PRODUCT TYPE	APPLICATION
Impregnating and intermediate agents	Flow-coating / immersion
Base coats and top coats	Spray



## PIGMENTED

### PALE COLOR 3-COAT CYCLE with bicomponent base coat

Pine, Dark Red Meranti, Fir and Hemlock

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM106B	White impregnating agent	4-6 hours	40-60 g/m <sup>2</sup>
FA35B-CA508	White bicomponent base coat	4 hours	150-180 microns
Manual sanding after at least 12 hours.			
LA321B (series) LA321P (series)	White or pigmented top coat	24 hours	250-300 microns

### New PALE COLOR 4-COAT MAXIMUM PROTECTION CYCLE

Pine, Dark Red Meranti, Fir and Hemlock

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM106B	White impregnating agent	4-6 hours	40-60 g/m <sup>2</sup>
FA557B	White base coat	4 hours	150-180 microns
Manual sanding after at least 12 hours.			
LA4091B (series) LA4091P (series)	White or pigmented top coat	24 hours	175-200 microns
LA4091B (series) LA4091P (series)	White or pigmented top coat	24 hours	175-200 microns

### STRONG COLOR 3-COAT CYCLE

Pine, Dark Red Meranti, Fir and Hemlock

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM216C..	Colored impregnating agent	4-6 hours	40-60 g/m <sup>2</sup>
FA34/N.. FA364	Pigmented base coat	4 hours	150-180 microns
Manual sanding after at least 12 hours.			
LA321P (series)	Pigmented top coat	24 hours	250-300 microns

### 4-COAT CYCLE with transparent intermediate

Pine, Dark Red Meranti, Fir and Hemlock

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM216C..	Colored impregnating agent	2-4 hours	40-60 g/m <sup>2</sup>
IM124 IM441	Transparent intermediate	2 hours	40-60 g/m <sup>2</sup>
Brushing or manual sanding after at least 12 hours.			
LA321B (series) LA321P (series)	White or pigmented top coat	2-4 hours	175-200 microns
LA321B (series) LA321P (series)	White or pigmented top coat	24 hours	175-200 microns

### 4-COAT CYCLE with white intermediate

Pine, Dark Red Meranti, Fir and Hemlock

PRODUCT	DESCRIPTION	DRYING TIME	QUANTITY
IM106B	White impregnating agent	4-6 hours	40-60 g/m <sup>2</sup>
IM479B	White intermediate	2 hours	40-60 g/m <sup>2</sup>
Brushing or manual sanding after at least 12 hours.			
LA321B (serie) LA321P (serie)	White or pigmented top coat	2-4 hours	175-200 microns
LA321B (serie) LA321P (serie)	White or pigmented top coat	24 hours	175-200 microns

PRODUCT TYPE	APPLICATION
Impregnating and intermediate agents	Flow-coating / immersion
Base coats and top coats	Spray





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