



COATING SYSTEMS FOR WINDOWS AND EXTERIOR DOORS LASTING, SUSTAINABLE SOLUTIONS



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PROTECTION AND AESTHETICS **FOR EXTERIOR FRAMES AND SHUTTERS**

Coating of windows exterior doors is crucial to guarantee lasting functional and aesthetic performance. Windows, shutters and doors are constantly exposed to harsh environmental conditions, including rain, UV rays and frequent touching, all of which can compromise damage both wood and coating. It is therefore essential to choose **coating systems that provide excellent performance in terms of resistance to weathering and wear.**

ICA supplies specific coating systems using **ARBOREA WATER-BASED** products, developed to offer clear or pigmented finishes that are guaranteed to last. These systems utilize a variety of products, including those from the cutting-edge **ARBOREA PROTECH and BIO** ranges, formulated for optimal durability even in the most demanding conditions, e.g. exposed to adverse weather and frequent touching. Their versatility also makes them ideal **for cladding applications.**







EXPERIENCE, INNOVATION **AND GUARANTEED COATING SYSTEMS**

With more than twenty years of experience in the development of water-based coatings for exteriors, ICA has consolidated expertise in the selection of raw materials and formulations that ensure **wood is fully protected. Strict internal testing and natural and accelerated aging trials conducted in collaboration with accredited laboratory, Q-LAB,** ensure that ICA products for exteriors are proven and guaranteed to last, offering excellent performance even under extreme environmental conditions, from the humid heat of Florida to the deserts of Arizona.

Ongoing research and rigorous testing enable the company to **guarantee the quality and durability of the coating systems** selected, which can be customized to suit specific types of wood and client requirements. ICA provides the perfect solutions for new builds, ensuring impeccable finishes that last, without compromising on environmental sustainability and safeguarding user health.



PROTECH AND BIO: OUTSTANDING PERFORMANCE

FOR A SUSTAINABLE FUTURE

The **ARBOREA PROTECH** range features transparent and pigmented topcoats with optimal performance. These products are formulated to withstand harsh weather and chemical agents, guaranteeing excellent protection for window frames and shutters and other exterior elements. Resistance to sweat and grease, particularly in frequently touched areas, preserves the coating over time, avoiding weakening of the coating film.

The **ARBOREA BIO** range, on the other hand, is distinguished for its use of renewable materials derived from waste plant substances, and its high percentage of renewable content. These products provide quick-drying finishes with a low environmental impact and greater resistance to yellowing, meeting the growing demand for green solutions without sacrificing technical performance.

A range has recently been launched that combines the excellent protective properties of the PROTECH range with the sustainable innovation of BIO coatings, boosting performance in terms of resistance, durability and environmental compatibility.

The resins in the **ARBOREA PROTECH BIO** topcoat use **30%** of initial substances derived from plant-based products, reducing consumption of non-renewable sources and decreasing atmospheric CO₂ emissions through photosynthesis of substances replacing oil. These products actively contribute to reducing atmospheric emissions of carbon dioxide.





TRANSPARENT COATING SYSTEMS

TRANSPARENT COATING SYSTEM COMBINING SUPERIOR PERFORMANCE AND AN IMPECCABLE FINISH

- **IM216C....** Water-based one-component colored exterior wood stain for flow-coating application - 50 g/m²
- **IM441** Water-based sandable one-component transparent intermediate exterior wood stain for quicker application and drying with flow-coating technique - 50 g/m²
- **LA321IEPLUS** ARBOREA PROTECH water-based one-component transparent Douglas matt (30 gloss) topcoat for spraying application - 300 g/m²

TRANSPARENT SYSTEM WITH THE PERFECT BALANCE OF EFFICIENCY AND PERFORMANCE

- **IM216C....** Water-based one-component colored exterior wood stain for flow-coating application - 50 g/m²
- **IM441** Water-based sandable one-component transparent intermediate exterior wood stain for quicker application and drying with flow-coating technique - 50 g/m²
- **LA321IPLUS** ARBOREA PROTECH water-based one-component transparent Douglas matt (30 gloss) topcoat for spraying application - 300 g/m²

SUBTLE TRANSPARENT SYSTEM ENABLING HIGH PRODUCTIVITY

- **IM750C....** Universal water-based colored exterior wood stain, enabling treatment of soft or hard woods with a single product for flow-coating application - 50 g/m²
- **LA321IEPLUS** ARBOREA PROTECH water-based one-component transparent Douglas matt (30 gloss) topcoat for spraying application - 300 g/m²

BIO TRANSPARENT SYSTEM COMBINING SUSTAINABILITY AND PERFORMANCE WITHOUT COMPROMISE

- **IM216BIOC....** BIO water-based one-component colored exterior wood stain for brush, flow-coating or immersion application - 50 g/m²
- **IM441BIO** BIO water-based sandable one-component transparent intermediate exterior wood stain for flow-coating application - 50 g/m²
- **LA410IG10BIO** ARBOREA PROTECH BIO water-based one-component transparent Douglas matt (10 gloss) topcoat for spraying application - 300 g/m²

BIO TRANSPARENT SYSTEM WITH OUTSTANDING DURABILITY AND SUSTAINABILITY

(particularly recommended for entrance doors)

- **IM216BIOC....** BIO water-based one-component colored exterior wood stain for brush, flow-coating or immersion application - 50 g/m²
- **IM441BIO** BIO water-based sandable one-component transparent intermediate exterior wood stain for flow-coating application - 50 g/m²
- **LA631IG20BIO** ARBOREA PROTECH BIO water-based two-component transparent Douglas matt (20 gloss) topcoat with outstanding hardness and chemical resistance to grease and oils, for spraying application + 7% CA500BIO - 200 g/m²

Notes:

As an alternative to flow-coating application of intermediate product IM441, it is possible to use a coat of water-based one-component pigmented transparent base coat FA34 (150 g/m²) with spraying application. This process facilitates sanding and enables increased fullness of the coating film.

PIGMENTED COATING SYSTEMS

PIGMENTED SYSTEM WITH SUPERIOR OPACITY AND GUARANTEED SAFETY ON EXOTIC AND RESINOUS WOODS

- **IM126B** Water-based one-component white medium-opacity exterior wood stain for flow-coating application - 50 g/m²
- **FA35B** Water-based two-component white base coat for vertical spraying application + 10% CA500 - 150 g/m²
- **LA321IBPLUS** ARBOREA PROTECH water-based one-component white matt (30 gloss) topcoat for spraying application - 275–300 g/m² – **LA321IB/LA321IBAPLUS** white and transparent converter for pigmented finishes (ICA, RAL, NCS and based on sample)

PIGMENTED SYSTEM WITH HIGH COVERAGE FOR SPRUCE AND PINE FINGER-JOINT

- **IM1169B** Water-based one-component white medium-opacity exterior wood stain ready to use and with excellent flow for flow-coating or immersion application - 50 g/m²
- **FA1167B** Water-based one-component white base coat with excellent comb coverage and sandability for vertical spraying application - 150-200 g/m²
- **LA321IBPLUS** ARBOREA PROTECH water-based one-component white matt (30 gloss) topcoat for spraying application - 275–300 g/m² – **LA321IB/LA321IBAPLUS** white and transparent converter for pigmented finishes (ICA, RAL, NCS and based on sample)

SUBTLE PIGMENTED SYSTEM WITH MAXIMUM PRODUCTIVITY AND QUICK APPLICATION

- **IM479B** Water-based sandable one-component white high-opacity base coat for flow-coating application - 50 g/m²
- **LA321IBPLUS** ARBOREA PROTECH water-based one-component white matt (30 gloss) topcoat for spraying application - 250–300 g/m² – **LA321IB/LA321IBAPLUS** white and transparent converter for pigmented finishes (ICA, RAL, NCS and based on sample)

BIO PIGMENTED SYSTEM BALANCING AESTHETICS, PERFORMANCE AND SUSTAINABILITY

- **IM216BIO** BIO water-based one-component transparent exterior wood stain for flow-coating application - 50 g/m²
- **FA34BBIO** BIO water-based one-component white base coat for spraying application - 175 g/m²
- **LA410IBG10BIO** ARBOREA PROTECH BIO water-based one-component white matt (10 gloss) topcoat for spraying application - 300 g/m²

BIO PIGMENTED SYSTEM WITH OUTSTANDING CHEMICAL AND PHYSICAL RESISTANCE, PERFORMANCE AND SUSTAINABILITY (particularly recommended for entrance doors)

- **IM216BIOC....** BIO water-based one-component colored exterior wood stain - 50 g/m²
- **FA34BBIO** BIO water-based one-component white base coat for spraying application - 175 g/m²
- **LA631IBG20BIO** ARBOREA PROTECH BIO water-based two-component white matt (20 gloss) topcoat with outstanding hardness and chemical resistance to grease and oils, for spraying application + 7% CA500BIO - 200 g/m²

COMPLEMENTARY PRODUCTS FOR SPECIFIC APPLICATIONS ON WINDOWS AND EXTERIOR DOORS

For special requirements, consider the alternative products listed below. These provide solutions for specific conditions or purposes. Our technical team is on hand for further details and support.

EXTERIOR WOOD STAINS

- **IM839C....** Water-based one-component colored exterior wood stain for soft woods and finger joints with an irregular density, designed to guarantee perfectly uniform application, and also ideal for beams and matchboard, for brush, flow-coating or immersion application
- **IM117C....** Water-based one-component exterior wood stain ideal for woods with tannins and exotic woods, avoiding loss of fluidity during flow-coating or immersion application
- **IM216WS** Water-based one-component transparent exterior wood stain for non-colored cycles, with highly colorless UV protection, specific for soft woods, and designed to maintain the natural look of light woods, for brush, flow-coating or immersion application
- **IM872** Water-based one-component transparent exterior wood stain for non-colored cycles, with highly colorless UV protection, specific for woods with tannins, and designed to maintain the natural look of light woods, for brush, flow-coating or immersion application
- **IM151A / IM151AI** Water-based one-component transparent PT8 biocide exterior wood stain with preservative action against fungi and molds, IM151AI also has a preventive function against wood-boring insects; both can be applied by brush, flow-coating or immersion application
- **IM538B** Water-based one-component white exterior wood stain, ideal for semi-opaque whitened cycles, pigmented cycles or as a base for pastel wood stains (used in combination with colorless base coat IM538BA), not recommended for wood with tannins, suitable for brush, flow-coating or immersion application

BASE COATS AND SEALERS

- **FA580EC** Water-based one-component transparent high-fill base coat, easy to sand and with good elasticity, specially developed for entrance doors, with spraying application
- **FA557B** Water-based one-component white base coat with high sandability and filling properties, suitable for conifers and mahogany, applicable vertically by spray
- **FA689B** Water-based one-component white anti-tannin base coat, ideal for woods containing extracts which are to be treated with one-component products for the creation of pigmented finishes, for vertical spraying application
- **ISA1008** Water-based two-component transparent sealer; ideal for pigmented cycles, but above all for whitened cycles, avoiding yellowing of wood knots, for spraying application

TOPCOATS

- **LA321IWS** Water-based one-component topcoat, ideal for light woods with cycles that maintain the natural color of the wood
- **LA330IEC** Water-based one-component transparent quick-drying topcoat, designed to prioritize lasting performance and aesthetics, for spraying application
- **LA324IB** Water-based one-component white quick-drying topcoat, designed to prioritize lasting performance and aesthetics, for spraying application



WOOD CARE

ICA coating cycles offer exceptional and lasting protection for exterior elements. Appropriate, regular care is nevertheless essential to maintain coating aesthetics. Water-based products are recommended, since they are easier and more effective in terms of outdoor protection and durability.

FAST CLEANER sanitizing detergent can be used to clean window frames, shutters and doors, with transparent or pigmented finishes, and to remove dirt without damaging the coating film.

EASY COAT ready-to-use water-based refresher, applied at least two to three times per year, prevents deterioration by maintaining protective performance for longer, reducing the frequency of maintenance work.





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