



ACCOYA® SYSTEM



ACCOYA® JOINERY

POWERED BY SIRCA COATINGS

Sirca manufactures and sells coatings for wood, a natural and precious material, to be protected and enhanced. Water or solvent-based, our paints are mainly applied in the field of interior furniture and exterior joinery and are often developed in collaboration with Italy's most important furniture and joinery companies. Standing out for their quality, level of customisation and durability, Sirca paints are manufactured alongside resins for a variety of industries including the fashion segment.

With over than 230 employees Sirca is a network that puts people and their knowledge at the centre of its work: supported by cutting-edge technologies, this precious asset forms the basis for the development of continuous improvement and research strategies. We have great ambitions and the numbers prove it: more than 20% of our staff is employed in the technical department, a laboratory covering more than 1000 square metres in which engineers, analysts, testers, colourists and appliers work as a team to understand, analyse and meet market trends, while keeping in close contact with customer service technicians.

Wooden outdoor structures are exposed daily to chemical and biological changes, in addition to physical processes.

The factors that influence these variations are different and they can be summarized mentioning the most significant ones: solar radiation, thermal radiation, moisture changes, wind, rain and dust attacks, photochemical degradations, dimensional changes due to moisture and temperatures and natural erosion.

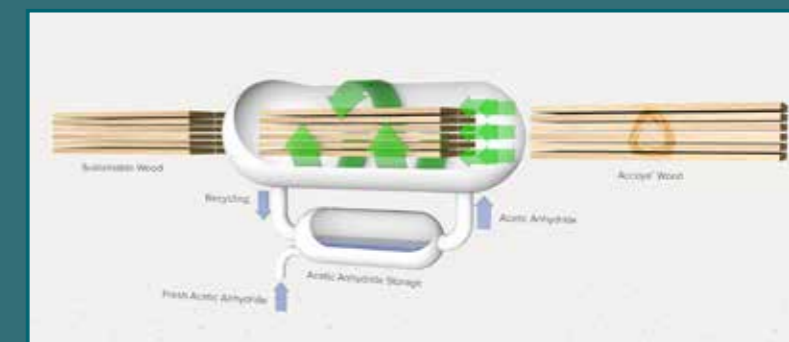
To limit these changes it is therefore necessary to use a highly technological wooden support suitable for the purpose and a proper coating system that gives a high level of protection and long lasting.

Accoya® is wood, but not as you know it. It is a high performance timber in which a process called acetylation, a cutting-edge patented technology, enables it to resist rot, defy the elements and stay strong for decades. Guaranteed for 50 years above ground and 25 years in ground or freshwater, its performance and properties are remarkable.

In applications where extreme durability is required, Accoya® wood has opened a new world of high performance, beautiful, sustainable, low maintenance possibilities for products including windows, doors, decking and cladding.

To further improve the durability of Accoya® wood, Sirca IDROCOLOR waterborne coatings can be used and properly applied, not only to coat the "raw" Accoya® but also to maintain the outstanding condition of the doors, windows and exterior furniture.

The performance of Sirca exterior coatings has been certified by in-depth outdoor testing in harsh conditions at Sirca's facility, alongside an accredited exterior lab to gain an external third party authoritative analysis.





Accoya® wood is created from readily available sustainably sourced non-durable woods that are modified to match or exceed the durability, stability and beauty of the very best tropical hardwoods. The Accoya® wood production process that ‘enables nature’, creates a new durable, stable and beautiful product -that has the very best environmental credentials.

Accoya® is helping to protect the world’s precious hardwood resources and is guaranteed for 50 years in exterior use and 25 years when used in the ground/freshwater. This long life wood also provides an added benefit -helping to reduce carbon emissions by delaying the point at which wood breaks back down again into CO₂ and its other base components.

Accoya® wood creates beautiful and sustainable possibilities, even in demanding applications.

BENEFITS

Accoya long life modified wood.
Tried and tested around the world.

PERFORMANCE

Its performance excels in every way.



WARRANTY



HIGHLY
STABLE



HIGHLY
DURABLE



LONG
SERVICE LIFE

FINISH

It's beautifully versatile.



LOW
MAINTENANCE



IDEAL FOR
COATING



MULTIPLE
FINISHES



NATURAL
WOOD

SUSTAINABILITY

It has world-changing environmental credentials.



SUSTAINABLY
SOURCED



NON TOXIC



LOW
ENVIRONMENTAL
IMPACT



100%
RECYCLABLE

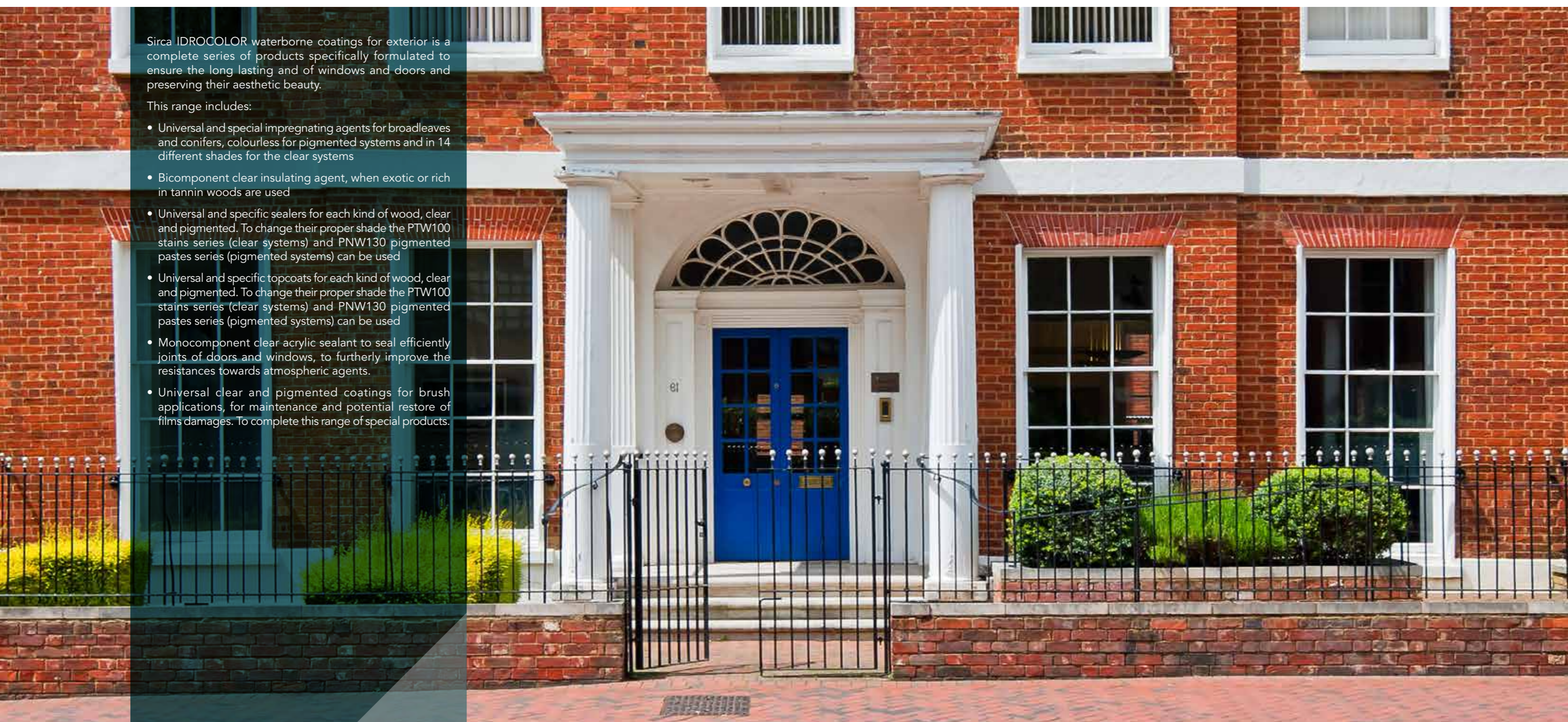
IDROCOLOR

RANGE OF PRODUCTS

Sirca IDROCOLOR waterborne coatings for exterior is a complete series of products specifically formulated to ensure the long lasting and of windows and doors and preserving their aesthetic beauty.

This range includes:

- Universal and special impregnating agents for broadleaves and conifers, colourless for pigmented systems and in 14 different shades for the clear systems
- Bicomponent clear insulating agent, when exotic or rich in tannin woods are used
- Universal and specific sealers for each kind of wood, clear and pigmented. To change their proper shade the PTW100 stains series (clear systems) and PNW130 pigmented pastes series (pigmented systems) can be used
- Universal and specific topcoats for each kind of wood, clear and pigmented. To change their proper shade the PTW100 stains series (clear systems) and PNW130 pigmented pastes series (pigmented systems) can be used
- Monocomponent clear acrylic sealant to seal efficiently joints of doors and windows, to furtherly improve the resistances towards atmospheric agents.
- Universal clear and pigmented coatings for brush applications, for maintenance and potential restore of films damages. To complete this range of special products.



CARE AND MAINTENANCE OF COATED WOODEN JOINERIES

The lasting of a wooden substrate coated with water based products increases considerably if periodic maintenance is performed, cleaning and renewing the existing paint film.

Sirca therefore provides a range of maintenance products which allow to clean properly and restore entrance doors, windows, shutters, blinds, garden furniture, painted with both clear and pigmented systems.

It is suggested to carry out maintenance every six months, cleaning the coated surface with a neutral detergent to remove grease, dust, smog and salts that are deposited naturally during a season, due to action of wind, rain and air pollution.

If the paint film is still perfectly intact, it is recommended to apply a brightener, which allows to restore the initial water repellency and soft feel, along with aesthetic aspect.

In case of minor damages of the paint film, it is possible to quickly and easily restore it, through the use of Sirca topcoats applicable by brush, mentioned before, after sanding of the damaged area.



TESTED COATING SYSTEMS

Sirca Labs have developed and tested specific and customized coating systems for Accoya support. Accelerated aging tests were performed in Sirca Testing Area, according to EN927/6, for 2016 hours (standard time) and 4000 hours. Additional natural outdoor exposure tests were carried out, in accordance with EN 927/3, on the following types of wood substrates: Accoya® radiata pine, Meranti, Merbau, Thermowood, Norway spruce, Scots pine, MEDITE® TRICOYA® EXTREME. These additional tests were performed in the Netherlands by the Accsys Group Laboratory in Arnhem. The external exposure lasted for three years and at the end of the test the evaluation was carried out in accordance with ISO4628. Despite the severe conditions of exposure, coating systems received very positive feedbacks, that allows to propose highly performant and long lasting coating systems. In relation to these positive results, Sirca provides to customers a 15-years guarantee on the durability of the wooden structures coated with its products.

Hereby these clear and pigmented coating systems are described:

1. *CLEAR/TRANSPARENT SYSTEM ON ACCOYA®

PRODUCT	CODE	APPLICATION SYSTEM	DRYING TIMES	WET THICKNESS
IMPREGNATING AGENT FOR BROADLEAVES	IMW9000 SERIES (dark shades suggested)	DIPPING OR FLOW-COATING	4- 5 HOURS	
CLEAR SEALER	FWE 901	DIPPING OR FLOW-COATING	8 HOURS	
1st CLEAR TOPCOAT	OWE1003 (*)	SPRAY	2-3 HOURS	200 MICRONS
2nd CLEAR TOPCOAT	OWE1003	SPRAY	16-24 HOURS	200 MICRONS

(*)For the best results in terms of aesthetic properties, we recommend to increase the drying times of the first coat of topcoat till 5-6 hours, in order to sand it with 320 paper grit before the application of the second final coat of topcoat; OWE1000 series is available in three different shades: OWE1001 honey color, OWE1003 wheat color and OWE1010 walnut color.

2. PIGMENTED SYSTEM ON ACCOYA®

PRODUCT	CODE	APPLICATION SYSTEM	DRYING TIMES	WET THICKNESS
IMPREGNATING AGENT FOR BROADLEAVES	IMW4418S05	DIPPING OR FLOW-COATING	4- 5 HOURS	
CLEAR INSULATING AGENT	FIW470/CWN20	SPRAY	6 HOURS	80 MICRONS
PIGMENTED SEALER	FWP630	SPRAY	8 HOURS	175 MICRONS
PIGMENTED TOPCOAT	OWP930 SERIES	SPRAY	16-24 HOURS	250 MICRONS

The systems described above have to be intended as general systems for this kind of wooden substrate.

The best coating system depends by several parameters, all fundamental, that have to be customized following the production processes.

So, before proceeding with the production, it is strongly suggested to contact the ISF Technical Assistance, in order to study together the best technical solution.

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