



UV COATINGS FOR PRE-FINISHED WOODEN FLOORING

HI-TECH APPROACH, NATURAL TOUCH

## PROTECTION, BEAUTY AND RESPECT FOR THE ENVIRONMENT COME TOGETHER IN AN INNOVATIVE RANGE OF UV COATINGS FOR PRE-FINISHED WOODEN FLOORING

**ICA Group** has always differentiated itself for the exceptionally high quality and reliability of its products; this is a particularly remarkable achievement in a market that is as competitive as the wood coatings market.

The experience that ICA Group has accumulated in the wood coatings sector has enabled it to formulate products that are increasingly geared towards maximum performance in terms of resistance and durability, without compromising the natural beauty of the wood. This also applies to the group's coating products for wooden flooring.

Wooden floors are, without doubt, among the main features of current trends in residential and contract construction. For this reason, ICA Group's **Research & Development laboratories** decided to design a **range of coatings for pre-finished wooden flooring**.

The solvent-based and water-based products of the **PARKEA UV CURING** range deliver **excellent levels of chemical/physical performance** on wooden flooring (both open-pore and closed-pore), and have a **low level of emissions of volatile organic compounds (VOC)**. Alongside these advantages, **the water-based products endow the wooden floor with a more natural look** than can be achieved with 100% acrylic coatings, thereby ensuring excellent results in terms of quality and aesthetics.

**Color** is a fundamental aspect of coatings, and so ICA Group invests heavily in the development of **new shades and effects**, which have become essential embellishments for wooden flooring. ICA Group provides customized products that are designed to meet the needs of its client base; the different wood species and finishes can be adapted to a diverse array of tastes and contexts, giving rise to an infinite variety of results. Experimenting with different shades, then, becomes a design element, both for interior furnishings and for wooden floors. The formulation and preparation of the large range of stains for wooden flooring can also be carried out using the simple and effective **STAIN MIX tintometric system**.

The solutions designed for pre-finished wooden flooring are the result of the ongoing research conducted by the group, which encapsulates the importance that it places on continuous technological improvement. ICA Group aims to consolidate its reputation as a reliable partner. With a well-structured, extensive sales network and a technical support infrastructure that can leverage decades of experience in the sector, the group is able to supply products and services that anticipate the requirements of the market.



## HIGH PERFORMANCE AND MAXIMUM AESTHETIC IMPACT

The range of UV coatings for pre-finished wooden flooring makes it possible to achieve **high levels of productivity with low levels of environmental impact**, delivering the chemical/physical characteristics required of coatings for wooden floors, including **hardness, chemical resistance and resistance to abrasion**. The correct balancing of the chemical and mechanical characteristics across the various coats that compose the coating cycle is an essential factor in optimizing the final result.

The tests carried out by the ICA Group laboratory on pre-finished wooden flooring mostly concern: **adhesion to the surface**, in order to check the effective anchoring of the coating film to the wood; **resistance to abrasion**, simulating the wear-and-tear of the flooring when it is walked upon; and **resistance to chemical agents** (water, alcohol, ammonia, wine, coffee, etc.) **and to commonly used cleaning products**.

### ADHESION TEST

- Cross hatch test (UNI EN ISO 2409/07)
- Tear-off test (UNI 9240)

### TEST OF RESISTANCE TO ABRASION (TABER TEST)

- ASTM D 4060-01 standard (grinding wheel CS17)
- DIN 68861/2 standard (abrasive strips S42)
- UNI EN 15185 standard (abrasive strips S42)

### TEST OF CHEMICAL/PHYSICAL RESISTANCE

- Chemical resistance for wooden flooring (UNI EN 13442:2002)
- Pencil hardness (UNI 10782)
- Resistance to light (UNI 15187)
- Tendency to trap dirt (UNI 9300)
- Classification of coating cycles for wood flooring (UNI 11622)
- Indoor emissions test (UNI EN ISO 16000/9)
- Scratch resistance (UNI EN ISO 15186)

### CLIMATE TESTS

- Humidity (internal method)
- Cold-check (UNI 9429)

### FIRE-REACTION TEST

- Fire classification of construction products and building elements (EN UNI 13501-1, using the EN ISO 9239-1 test method)



## PRODUCT RANGE

### TRIMMABLE FILLERS

Acrylic UV fillers, which are suitable for the restoration of damaged or cracked wood. Available for light woods and dark woods.

Application: roller.

### STAINS, VEHICLE AND PATINAS

A wide range of water-based and solvent-based solutions for the decoration of wooden flooring.

**ACTIVIN** reactive water-based stains for Oak and Chestnut.

Application: roller, spray.

### PRIMERS

Acrylic, water-based UV and polyurethane coatings that offer excellent adhesion on various wood species.

Application: roller, spray.

### BASE COATS

Transparent and colored UV fillers and base coats, featuring high levels of elasticity and resistance to abrasion.

Application: roller, spray.

### TOP COATS

Acrylic and UV solvent-based and water-based (matt and gloss) coatings offering excellent scratch resistance, hardness, chemical resistance and distension.

Application: roller (normal and laser), spray, curtain coating.

### UV OIL

UV-cured base/top coat that makes it possible to carry out rapid cycles with a particularly natural effect. The protective film is almost invisible.

Application: roller.

### FIRE-RETARDANT PRODUCTS

Primers and fillers for fire-retardant treatment in fire-reaction class Bfl S<sup>1</sup> D0 (EN UNI 13501-1:2009, test method EN ISO 9239-1).

Application: roller.

The **PARKEA range** also includes **products for the laying of wooden floors**: primers (moisture-curing polyurethane and epoxy) and adhesives (bicomponent epoxy-polyurethane and monocomponent polyurethane).

## MAINTENANCE

### NATURLUX

Product designed for the maintenance of wooden flooring coated with water-based coatings or treated with oil (normal or UV) or with wax. Protects the floor from wear-and-tear and dust, restoring the surface's elasticity and resistance to moisture.

### PULIWOOD

Neutral, concentrated liquid detergent for the delicate cleaning of coated or waxed wooden flooring.

### DEOLUX

Neutral liquid conditioner for pre-finished or solvent-coated wooden flooring. Protects the wooden floor from wear-and-tear and creates an anti-static surface that is resistant to dust.



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