



## TECHNICAL DATA SHEET

# IRUFIRE REAL FLOORING Bfl-s1 AQUA

### PRODUCT DESCRIPTION

Colourless fire retardant process. An acrylic-based primer and a polyurethane-based finish, both two-component, developed for application on untreated wood surfaces and achieving varnished wooden floors and parquet with a Bfl-s1 classification according to UNE-EN 13501-1 (Euroclasses).

The process comprises the following products:

- IRUFIRE FLOORING PRIMER IFAP-1 AQUA. Cures by adding the HARDENER IRUFIRE FLOORING catalyst (mix 10:1 by volume). It should be applied at a rate of 80-90 g/m<sup>2</sup>.
- IRUFIRE FLOORING TOPCOAT IFAT-1 AQUA. Cures by adding the HARDENER IRUFIRE FLOORING catalyst (mix 10:1 by volume). 2 coats should be applied with a rate of 70-80 g/m<sup>2</sup> each. Available in different levels of gloss.

### GENERAL PROPERTIES OF THE PROCESS

- Fire reaction Bfl-s1 according to UNE-EN 13501-1 (Euroclasses) applied on untreated wood.
- Easy application with brush and roller.
- Fast drying and good sanding (with orbital or vibrating sanders).
- Good transparency (prior test recommended on dark woods).
- High effectiveness against tannins (low greenish effect on oak) in problematic woods.
- Resistant to yellowing.
- Coefficient of slip: suitable for sports halls and class 2 according to CTE (interior use, stairs, and ramps).
- Excellent chemical resistance and abrasion resistance.
- Very good resistance to rubbing, scratching, and heel marks.
- Cleaning of work tools with water.

### IRUFIRE FLOORING PRIMER IFAP-1

#### PHYSICAL PARAMETERS (20 °C)

- Mixture Ratio IRUFIRE FLOORING PRIMER IFAP-1 / HARDENER	10/1
- Specific Weight	1,09-1,11 g/cm <sup>3</sup>
- Mix Viscosity Ford Cup No. 4	25-35"
- Minimum Pot Life	Approx. 4 hours
- Mixture Solids	40-44%
- VOCs in mixture (maximum allowed limit: 140 g/l)	96 g/l
- Appearance of dry film	Colourless
- Stability without opening the container (protect from freezing)	12 months
- Performance	11-13 m <sup>2</sup> /l

#### CURING TIMES (100 g/m<sup>2</sup> a 20°C y 60% H.R.):

- Dry to dust	25-35 min
- Dry to touch	60-70 min
- Overcoating	14-16 hours



## IRUFIRE FLOORING TOP COAT IFAT-1

### PHYSICAL PARAMETERS (a 20 °C)

- Mixing ratio IRUFIRE FLOORING TOP COAT IFAT-1 / HARDENER:	10/1
- Specific Weight:	1,02-1,05 g/cm <sup>3</sup>
- Mix Viscosity Ford Cup No. 4:	20-30"
- Minimum Life Span:	Approx. 4 hours
- Mixture Solids:	27-33%
- VOCs in mixture (maximum allowed limit: 140 g/l):	90 g/l
- Appearance of the dry film:	Colourless
- Stability without opening the container (protect from freezing):	12 months
- Performance:	12-15 m <sup>2</sup> /l

### CURING TIMES (100 g/m<sup>2</sup> at 20°C and 60% H.R.):

- Dry to dust:	25-35 min
- Dry to touch:	60-70 min
- Overcoating:	>4 hours

## APPLICATION

**Support:** Wood (parquet and laminate). Do not apply on woods containing more than 12% humidity.

**Support Preparation:** Prepare the wood by sanding. It's recommended to refine with a fine grain for better filling and coverage. Remove dirt, grease, sanding residues, etc. Microcement must be dry, with humidity below 2.5%.

**Application:** Homogenize the varnishes and mixtures before use (preferably incorporate using a mixer for approximately 1 minute). Use appropriate clothing and tools. Apply 1 coat of 80-90 g/m<sup>2</sup> of IRUFIRE FLOORING PRIMER IFAP-1 AQUA primer (mix 10:1 with HARDENER IRUFIRE FLOORING). The varnish is supplied at application viscosity. If necessary, dilute with water. Do not apply below 12°C. It's advisable to temper the product (20°C).

**Drying:** From 6 hours. For the best quality, it's preferable to allow 16 hours. Drying is influenced by the type of support and environmental conditions. It is recommended to temper and provide some ventilation to ensure water evaporation and achieve good film formation.

**Sanding:** Sand using vibrating machines, orbital sanders, polishers, or by hand. Sand with fine sandpaper (280 or higher). Using sandpapers with stearate or mesh minimizes clogging.

**Overcoating:** Apply 2 coats of 70-80 g/m<sup>2</sup> of IRUFIRE FLOORING TOPCOAT IFAT-1 AQUA finish (mix 10:1 with HARDENER IRUFIRE FLOORING) with a 16-hour interval. The varnish is supplied at application viscosity. If necessary, dilute with water. To achieve optimal varnishing quality, ensure the temperature during application and drying remains between 15-30°C and the relative humidity stays below 70%. After applying the final coat, allow at least 48 hours for adequate scratch resistance.

**Cleaning of Tools:** Once the product has been used, clean the tools with water. If the material has dried, use Solvent S-171 for cleaning.

**Surface Maintenance:** Once dry and cured, it is recommended to use neutral soaps and avoid excessively wetting the surface. Do not flood the floor with water.



**\* Conditions for the validity of the Documentation for the IRUFIRE REAL FLOORING Bfl-s1 AQUA process:**

The company receiving the documentation must:

- Select the substrate based on the specifications and carry out the process according to the guidelines established by Irurena Group.
- Correlate through the corresponding purchase receipt that the required products have been acquired and used, in the necessary quantity as specified in the technical data sheet for the classified process.